

## **Contents**

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All the materials required for each lesson are included within the corresponding number tab.

## **Each section includes:**

- a. Lesson overview sheets
- b. PowerPoint handouts
- c. Task sheets
- d. Answers

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## **Teacher's Introduction**

This pack has been written to support the GCSE Edexcel specification (1GB0). It covers the topic content for Unit 3 – Challenges of an Urbanising World. Each key idea of the specification is presented in the order outlined by Edexcel, unless indicated otherwise in the overview of the scheme of work. Key terms identified from the specification are highlighted at the start of each lesson in which they are first introduced.

There are 14 lessons in total. Each lesson tab contains four parts: a lesson **Overview** to help you plan and prepare for the lesson; **Task Sheets** containing all the relevant information required for the lesson; **PowerPoint slide handouts** to use as a teaching reference (if using the lesson PowerPoints available on the CD-ROM); **Answers** for the lesson.

Because individual student learning objectives vary with each student's needs and ability, the aim of each lesson is given as a **learning question** set out at the beginning of the lesson. You may wish to translate this into specific learning objectives for your students. You will find anticipated learning outcomes for each task (All, Most and Some students can...) outlined in the **Teaching and Learning Plan** (Section C of each lesson overview). It is good practice to allow students to reflect on how confident they feel that they are able to answer the **learning question** at the end of each lesson.

Each lesson, students work towards answering the **learning question** through a number of tasks that develop their knowledge, understanding, application and skills (in line with the Assessment Objectives for Geography outlined by the government and your examining board). Tasks are structured to engage learners who employ visual, auditory, reading/writing and kinaesthetic learning strategies. Each task is inherently differentiated through its structure. You will find ideas on how you could further differentiate tasks to provide additional support or extension for your specific students in the **Teaching and Learning Plan** (Section C of each lesson overview).

Answers for every lesson task are set out at the end of each lesson tab. Assessment takes place via a variety of methods requiring different levels of your involvement. Exam-style questions will require formal marking by the teacher or support of students undertaking self-assessment. Generally, knowledge-gathering exercises need not be assessed except through informal review at the end of a task. You may wish to acknowledge student effort and accuracy on a regular basis through informal marking within the classroom.

The course aims to engage students in the assessment of their own and their peers' work to deepen their learning experience and retention of knowledge. There are specific tasks where self- or peer-assessment is used to help students learn how they will be assessed during examinations and practise structuring their answers to best demonstrate their ability. Opportunities for your formal assessment of individual student progress are highlighted in each Teaching and Learning Plan. The **Meaningful Marking Overview** can help you track this over the unit and between units of the GCSE Geography course. You may wish to keep a supply of a particular coloured pen in your classroom in order that peer- and self-assessment can be distinguished from your own formal marking.

The lesson **Overview** is designed to help you plan and prepare for each lesson and contains: Part A

- Directions to the associated Task Sheet and PowerPoint for the lesson;
- An outline of what preparation will be needed in particular what resources you will need to photocopy and how many of each you will need; and
- A list of any other resources you may need to provide.

## Part B

Space for you to make notes about specific student needs that you or a cover teacher will need to pay particular attention to during the lesson.

## Part C: The Teaching and Learning Plan. This sets out:

- Suggested timings and order of the lesson;
- Task instructions;
- Teaching strategies you could employ including suggested questions you might ask;
- Anticipated learning outcomes of each task; and
- Suggestions on how the learning could be assessed.

## Note from the author

Having been a teacher myself I know the essential benefits a good-quality resource brings to the classroom. But, more importantly, I believe in lightening teachers' workloads while helping them improve the quality of their teaching. This is what I have sought to achieve here. The resource is packed with ideas and content — take as much or as little as you need. Where you find the content of a lesson too much to get through in one lesson, whether due to restricted teaching time or student behaviour, tailor it to suit your needs. If you have purchased the electronic version you can edit worksheets and move content as you desire.

The level of detail included in the planning and preparation overviews is not meant to cramp your individual teaching style, but to help you save time creating lesson plans while providing evidence that you are covering every aspect of the Edexcel specification in an effective and interesting way. You can choose to use the lesson content with or without the lesson plans — take individual tasks or lessons and incorporate them into your own schemes of work. The detailed questioning strategies may prove particularly helpful for cover and non-specialist teachers.

I hope you will find teaching Geography using this pack an enjoyable and professionally fulfilling experience. Please feed back on the types of activities you and your students find most successful or with suggestions for improvements.

J Gettrup PGCE MRes BSc (Hons) Former Geography Teacher

The purpose of the pack is to impart subject knowledge but also to provide activities that develop students' understanding and application of the specification content. Introductory text outlines the key concepts of the specification, which are then explored through case studies and examples as required by the examination board.

This Teaching Pack can be supplemented by the ZigZag Education GCSE Edexcel Homework Pack: Challenges of an Urbanising World, which has been written alongside this resource to provide a set of engaging homework activities to follow each pair of lessons. The Homework Pack serves to consolidate classroom learning and broaden students' knowledge and understanding of the topic being studied. For details and to order, visit zzed.uk/8157.



A web page containing all the links listed in this resource is conveniently provided on ZigZag Education's website at zzed.uk/8157

You may find this helpful for accessing the websites rather than typing in each URL.

December 2017

## **Free Updates!**

Register your email address to receive any future free updates\* made to this resource or other Geography resources your school has purchased, and details of any promotions for your subject.

\* resulting from minor specification changes, suggestions from teachers and peer reviews, or occasional errors reported by customers

Go to **zzed.uk/freeupdates** 

## Oreview of the scheme of

| Edexcel B GCSE Topic 3: Challenges of an Urbanising World                   | Key idea f සි දූර්<br>specificati සි සි සි | Lesson number | Lesson title   | Lesson learning questions                               | Section of lesson | Les  |
|---|--|---------------|----------------|---|-------------------|--|
| -   |  |               |                |   | 1.1               | Global trends                                  |
| es and  | 2.4(2)                                     | 1             | Global         | What is urbanisation?  How and why is it differ oss the | 1.2               | How trends in global regions                   |
| ang   | 3.1(a)                                     | _             | urbanisation   | world?  | 1.3               | Future projec                                  |
| e the c   |  |               |                |   | 1.4               | Application of from the lesson                 |
| nat are<br>id urb   |  |               |                |   | 2.1               | Introduction to<br>Indonesia)                  |
| Enquiry Question: What are the causes and challenges of rapid urban change? | 4209                                       | 50,           | Megacities and | Where are megacities and how are they                   | 2.2               | Definition of r<br>world/global<br>Number and  |
| uiry Que<br>challeng  | a Edu                                      | #/ L          | urban primacy  | changing? What is urban primacy?                        | 2.3               | Urban primac<br>disadvantage<br>(political and |
| Enq   |  |               |                |   | 2.4               | Growth rates regions                           |



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| 3.3(a) 5 Changing Changing Changing Processing State of S |               |                     |    |                 |                                   |     |                                    |
|--|---------------|---------------------|----|-----------------|-----------------------------------|-----|------------------------------------|
| 3.2 migration 3.3 key term cons Compare and developed, de countries How the struct developing co 4.3 The formal and spatial growth?  5.1 Introduction to megacity Changing populations change and what is the impact on spatial growth?  3.3(a) 5 Changing Changing populations change and what is the impact on spatial growth?  3.3(b) 6 Urban land use  What are the characteristics of land use in urban areas? How are they influences on 6.2 Land-use characteristics and influences on 6.3 Consolidation characteristics and influences 7.1 Existing know 7.2 Facts about th Reasons why nationally, reg  |               |                     |    |                 |                                   | 3.1 | I :::                              |
| 3.2(b) 4 Economies of cities. How are urban economies different from one another?  How are urban economies different from one another?  4.2 How the struct between developing co develop |               | 3.2(a)              | 3  | .7777 7796      |                                   | 3.2 |                                    |
| 3.4(a) 7 Introducing Rio de Janeir connectivity? 7.1 Existing know 7.2 Facts about the Reasons why nationally, reconnectivity?   |               | 719                 |    | 1               |                                   | 3.3 | Key term cons                      |
| 3.4(a) 7 Introducing Rio de Janeir Jonnectivity? 7.1 Existing know 7.2 Facts about the graph of the state of Rio de 7.2 Facts about the Reasons why in nationally, regions.  | ban chan      | 709<br>Educati      | 0) | 7               |                                   | 4.1 | Compare and developed, decountries |
| 3.4(a) 7 Introducing Rio de Janeir Jonnectivity? 7.1 Existing known 7.1 Existing known 7.2 Facts about the Reasons why 8 nationally, reg   | Frapid ur     | 3.2(b)              | 4  |                 |                                   | 4.2 | between dev∈                       |
| 3.4(a) 7 Introducing Rio de Janeir Jonnectivity? 7.1 Existing known 7.1 Existing known 7.2 Facts about the Reasons why 8 nationally, reg   | sol           |                     |    |                 |                                   | 4.3 | The formal ar                      |
| 3.4(a) 7 Introducing Rio de Janeir Jonnectivity? 7.1 Existing known 7.1 Existing known 7.2 Facts about the Reasons why 8 nationally, reg   | llenge        |                     |    |                 |                                   | 4.4 | 33                                 |
| 3.4(a) 7 Introducing Rio de Janeir Jonnectivity? 7.1 Existing know 7.2 Facts about the graph of the state of Rio de 7.2 Facts about the Reasons why in nationally, regions.  | nd cha        |                     |    |                 | O                                 | 5.1 | ***                                |
| 3.4(a) 7 Introducing Rio de Janeir Jonnectivity? 7.1 Existing know 7.2 Facts about the graph of the state of Rio de 7.2 Facts about the Reasons why in nationally, regions.  | ises ar       |                     |    | Changing        |                                   | 5.2 |                                    |
| 3.4(a) 7 Introducing Rio de Janeir Jonnectivity? 7.1 Existing know 7.2 Facts about the graph of the state of Rio de 7.2 Facts about the Reasons why in nationally, regions.  | t are the cau | 3.3(a)<br>19<br>209 | 5  |                 |                                   | 5.3 | suburbanisati<br>urbanisation,     |
| 3.4(a) 7 Introducing Rio de Janeir connectivity? 7.1 Existing know 7.2 Facts about the Reasons why nationally, reconnectivity?   | : Wha         | Eghcon              |    |                 |                                   | 5.4 | l ***                              |
| 3.4(a) 7 Introducing Rio de Janeir Jonnectivity? 7.1 Existing know 7.2 Facts about the graph of the state of Rio de 7.2 Facts about the Reasons why in nationally, regions.  | ion           |                     |    |                 |                                   | 6.1 | Influences on                      |
| 3.4(a) 7 Introducing Rio de Janeir Jonnectivity? 7.1 Existing know 7.2 Facts about the graph of the state of Rio de 7.2 Facts about the Reasons why in nationally, regions.  | lest          |                     |    |                 |                                   | 6.2 | Land-use char                      |
| 3.4(a) 7 Introducing Rio de Janeir Jonnectivity? 7.1 Existing know 7.2 Facts about the graph of the state of Rio de 7.2 Facts about the Reasons why in nationally, regions.  | nquiny Qu     | 3.3(b)              | 6  | Urban land use  |                                   | 6.3 | characteristic                     |
| 3.4(a) 7 Introducing Rio 1. , 5 site, situation and de Janeir connectivity? 7.3 Reasons why is nationally, reg   | 面             |                     |    |                 |                                   | 7.1 | Existing know                      |
| 3.4(a) 7 Introducing Rio 1. , 5 site, situation and de Janeir connectivity? 7.3 Reasons why is nationally, reg   |               |                     |    | Introducing Pic | What ignincance of Rio de         | 7.2 | Facts about th                     |
| 7.4 Rio de Janeiro   |               | 3.4(a)              | 7  |                 | اً ، ، نَّے s site, situation and | 7.3 | nationally, re                     |
|  |               |                     | \  | <u> </u>        |                                   | 7.4 | Rio de Janeiro                     |



|   |                  |    |                             |  | 8.1  | What is a mo   |
|---|------------------|----|-----------------------------|--|------|--|
| e the<br>S<br>ued)  | 3.4(b)           |    | The struc' of               |  | 8.2  | Land-use mod<br>developed co                             |
| What are the causes (continued)   | &<br>3.5(h)      | 8  | rie stric in or             | What is the structure of Rio de Janeiro?   | 8.3  | Spatial growt function and                               |
| ) × °   | 719              | 50 |                             |  | 8.4  | Location of di<br>building age v                         |
| ć.  | - 600            |    |                             |  | 9.1  | How to read t  |
| ity.  |                  |    |                             |  | 9.2  | Trends in pop  |
| uno.  | (-)              |    | Population                  | How and why has the population of the  | 9.3  | Natural incre  |
| 0 BHB   | 3.5(a)           | 9  | growth in Rio de<br>Janeiro | Rio de Janeiro changed?  | 9.4  | Reasons for p  |
| emer  |                  |    |                             |  | 9.5  | Rural–urban r<br>specifically pu                         |
| y in an   |                  |    |                             |  | 10.1 | Identify socia contrasting ar                            |
| Enquiry Question: Why does quality of life vary in a megacity in an emerging country? | 3.6(a)<br>& (b)  | 10 | Opportunities and chall as  | in it is the opportunities for people in agriculture of the challenges does rapid population | 10.2 | Opportunities employment, traffic conges industrialisati |
| life vary i   | Zig<br>Educati   |    | ڪاري<br>ا                   | growth create?   | 10.3 | Consolidation opportunities population gr                |
| jo  |                  |    |                             |  | 11.1 | Identification   |
| quality   |                  |    |                             |  | 11.2 | Features of lif  |
| Vhy does  | 3.6(c)<br>Part i | 11 | Inequalities in a megacity  | How and why do wealth and quality of life vary in Rio de Janeir.                             | 11.3 | Opportunities Janeiro and he inequalities in             |
| estion: V   |                  |    |                             |  | 11.4 | Variation in li<br>economic bac<br>Janeiro               |
| iiny Qu   |                  |    | ging the                    | What are the political and economic  | 12.1 | Consolidation unit                                       |
| Enqu  | Hog<br>Educati   | 12 | megacity                    | What are the political and economic challenges to managing Rio de Janeiro?                   | 12.2 | Challenges to including civil investment, c              |



| quality of<br>emerging | 3.6(c)<br>Part ii | 12 | Managing the megacity | What are the political and economic challenges to managing Rio de Janeiro? | 12.3 | Tackling the issues surroul legacy – reasons for differ life in the city |  |  |             |                    |      |                           |
|------------------------|-------------------|----|-----------------------|--|------|--|--|--|-------------|--------------------|------|---------------------------|
| oes qu<br>an em        |                   |    | Making a              | What are the advantages and  | 13.1 | Past knowledge and unde concept of sustainability                        |  |  |             |                    |      |                           |
| φ.e.ς                  | 2 7/2)            | 13 | megacity              | disadvantages of top-cow stra  | 13.2 | The sustainability stool ar  |  |  |             |                    |      |                           |
| 新华                     | 3.7(a)            | 13 | sustainable           | to creating 2 struct a megacity?   | 13.3 | Top-down strategies in Ri  |  |  |             |                    |      |                           |
| on: V                  |                   |    |                       |  |      |  |  |  | sustaniable | to creating - 5 %. | 13.4 | Judgement about the mo    |
| tio<br>Tio             |                   |    |                       |  |      |  |  |  |             |                    | 13.4 | down strategy in Rio de J |
| Sen                    |                   |    | P miom i              |  | 14.1 | Keyword consolidation  |  |  |             |                    |      |                           |
| δĘ,                    |                   | 4  | 719 200 1             | What are the advantages and  | 14.2 | Advantages and disadvan  |  |  |             |                    |      |                           |
| uiny (<br>vany         | 3.7(b)            | 14 | ont jo                | disadvantages of bottom-up strategies                                      | 14.2 | strategies – IT investigation  |  |  |             |                    |      |                           |
| ing:                   |                   | 1  | Education lity in a   | to creating a sustainable megacity?  | 44.0 | Consolidation of advanta   |  |  |             |                    |      |                           |
| <u> </u>               |                   |    | megacity.             |  | 14.3 | disadvantages  |  |  |             |                    |      |                           |



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| Lesson                 |                 | T 7.       | 2           | 3    | 4               | 5            | 6   | 7 | Γ |
|------------------------|-----------------|------------|-------------|------|-----------------|--------------|-----|---|---|
| Formal teacher moving  |                 | 1.2<br>1.3 | 2.2         | 3.2  | 4.2.1<br>4.3(c) | 5.2<br>+ Ext | 6.2 |   | T |
| Student name Education | AO1             | /2         | /12         | /5   |                 | /2           | /24 |   |   |
| <del> </del>           | AO2             | /4         | /38         | /12  |                 | /13          | /16 |   | Π |
|                        | AO <sub>3</sub> | /4         | /8          | /15  | /16             | /16          |     |   | Γ |
|                        | AO4             | /24        | /10         | /8   |                 | /9           |     |   | Γ |
|                        | AO1             | /2         | /12         | /5   |                 | /2           | /24 |   | Π |
|                        | AO2             | /4         | /38         | /12  |                 | /13          | /16 |   | Γ |
|                        | AO3             | /4         | /8          | /15  | L               | /16          |     |   | Γ |
|                        | AO4             | /24        | /10         | /b , |                 | /9           |     |   | Γ |
|                        | AO1             | /2         | 71          | /5   |                 | /2           | /24 |   |   |
|                        | AO2             | 141        | /38         | /12  |                 | /13          | /16 |   | Γ |
|                        |                 | /4 [       | /8          | /15  | /16             | /16          |     |   | Γ |
| 79                     | ا / کار         | /24        | /10         | /8   |                 | /9           |     |   | Γ |
| Education              | AO1             | /2         | /12         | /5   |                 | /2           | /24 |   | Π |
|                        | AO2             | /4         | /38         | /12  |                 | /13          | /16 |   | Γ |
|                        | AO <sub>3</sub> | /4         | /8          | /15  | /16             | /16          |     |   | Γ |
|                        | A04             | /24        | /10         | /8   |                 | /9           |     |   | Γ |
|                        | AO1             | /2         | /12         | /5   |                 | /2           | /24 |   | Π |
|                        | AO2             | /4         | /38         | lan  |                 | /13          | /16 |   | Γ |
|                        | AO3             | /4         | 18          | •••  | /16             | /16          |     |   | Γ |
|                        | A04             | ,          | <del></del> | /8   |                 | /9           |     |   | Γ |
|                        | AC1             |            | /12         | /5   |                 | /2           | /24 |   | Γ |
| 73                     | 1               | /4         | /38         | /12  |                 | /13          | /16 |   | Γ |
| Education Education    | AO <sub>3</sub> | /4         | /8          | /15  | /16             | /16          |     |   | Γ |
|                        | A04             | /24        | /10         | /8   |                 | /9           |     |   | Γ |

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## Lesson 1 Overview: Global urb



**Learning questions:** What is urbanisation? How and why is it different

New key terms: urbanised, urbanisation, global region, growth rate, percen

Associated Task Sheet: 1 – pages 13 – 17
Associated PowerPoint file: Lesson 1 3p

1.A Preparation

Worksh  $\mathcal{T}_{loc}^{\bullet}$  d is ources for photocopying:

| For event | Description  | Page(s) | Ph    |
|-----------|--|---------|-------|
| 1.1 & 1.3 | Graphs (bar chart and line graph) to complete and annotate | 18      | Numbe |
| 1.4       | Peer-assessment marking                                    | 19      | Numb  |

Other resources you may need to provide:

- ✓ Glue, stapler or hole punch to attach worksheets
- ✓ Calculators

## 1.B Individual student planning

Use this section to tailor your lesson plan to individual ... ents in your class.

|       | Student(s)   | Detail of action |
|-------|--|------------------|
| G&T   | 72.3<br>Edward (1)                                 |                  |
| SEN   |  |                  |
| EAL   |  |                  |
| Other | 79 11 13 12 15 15 15 15 15 15 15 15 15 15 15 15 15 |                  |

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## 1.C Teaching and learning plan

| Suggested<br>time | Event                              | rask instructions  | v   |
|-------------------|------------------------------------|--|-----|
| 15 mins           | 719<br>Zos<br>Education<br>Starter | to students: working independently, (a) unscramble the definition of ansation to complete the sentence; (b) complete the bar chart of global urbanisation.  Teaching strategy: develop student knowledge by leading discussion of answers at end of task.  Learning outcome:  All: know the definition of urbanisation and the global pattern of urban change.   | Ва  |
| 15 mins           | 1.2 Task                           | Instruction to students: working independently, interpret the bar chart and answer the questions to identify how urbanisation varies between global regions of the world.  Teaching strategy: develop student skills by the regions of the bar chart. Lead discussion of answers at the transportation of the bar chart. Lead discussion of answers at the transportation of people living in urban areas varies across different by the regions.  Most of his the number and proportion of people living in urban areas is the regions.  Some: understand why there is variation in urbanisation across global regions.   | No  |
| 15 mins           | 1.2 Task                           | Instruction to students: working independently, match the descriptors to the trends on the graph of rates of urbanisation in developed, emerging and developing countries and interpret the data.  Teaching strategy: develop student skills by leading discussion of answers at end of or during the task.  Learning outcome:  All: know how the rate of urbanistic in the changed and is different in developed, emerging the process of the change and the discussion of answers at end of or during the task.  Learning outcome:  All: know how the rate of urbanistic in the changed and is different in developed, emerging the process have been and are occurring and be able to make the process of change.  Anake calculations using annual percentage growth. | Lir |



| Suggested<br>time | Event  | Tilk ist juinons   |    |
|-------------------|--|--|----|
| 15 mins           | 7.9<br>Fordish F. Auconton<br>1.4<br>Plenary | Instruction to strong independently or in pairs, create an audio representation to strong independently or in pairs, create an audio representation is learning. Students should use the criteria set out in the consistency of lyrics at the end of the task. Performance is concessary – individuals or pairs could read their creations aloud or perform them.  Teaching strategy: develop student application by encouraging students to use their own language to explain their understanding of what they have learnt during the lesson. Develop student understanding by leading peer-assessment of lyric content against the criteria laid out in the task.  Learning outcome:  All: apply and interpret knowledge of facts about what urbanisation is and how it is happening at different rates and on different scales across global regions.  Most: include explanations of why these variations of cur in their own lyrics and are able to identify them in those of others.  Some: can make predictions about the solution of th | No |
|                   | 719<br>209<br>Education                      |  |    |

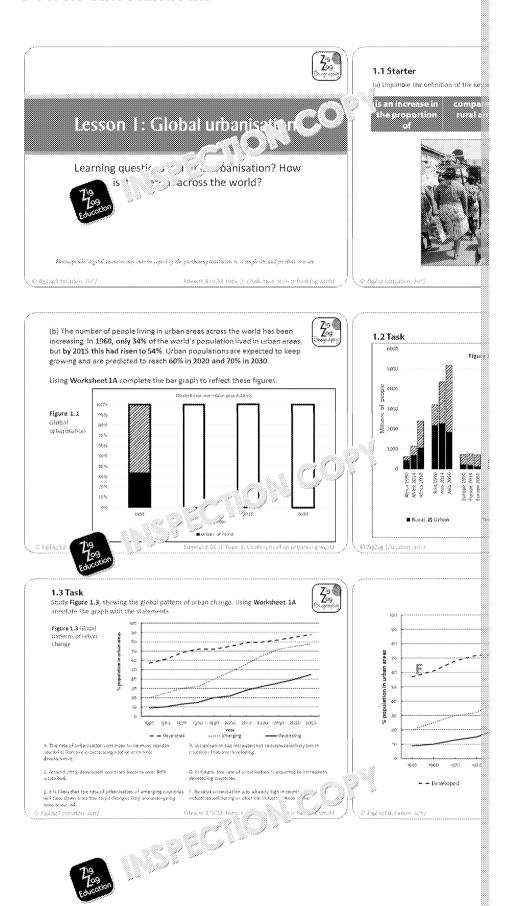




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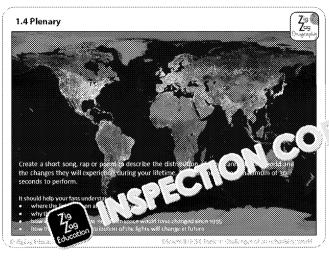


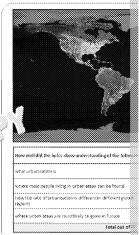
## **PowerPoint Handouts**



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# NSPECTION COPY



## Task Sheet 1: Global urbani



**Learning questions:** What is urbanisation? How and why is it different

New key terms: urbanised, urbanisation, global region, growth rate, perce

## 1.1 Starter

(a) Unjumble the definition of + v y ru

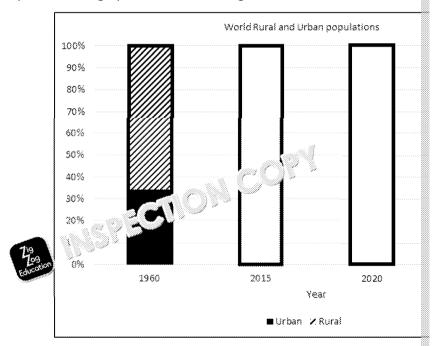
is an increase ir 1 4 compared to r

compared to rural areas.

URBANISATIO

(b) The rumber of people living in urban areas across the world has been incommorld's population lived in urban areas, but by 2015 this had risen to 54% to keep growing and are predicted to reach 60% in 2020 and 70% in 203

Complete the bar graph to reflect these figures.



**Figure 1.1:** Global urbanisation
Data source: World Health Organization, 2017

## 1.2 Task

The rate of urbanisation varies between global regions. Some regions are already largely urbanised, e.g. Europe and North America, while others still have large rural populations, e.g. Asia and Africa. This is because more countries in Europe and North America have industrialised. We call them developed countries. Emerging countries in Latin America entries in Africa and parts of Asia are still in the populations living in rural areas. In developing countries, rural populations are still in the easing due to improving living conditions and high birth rates.

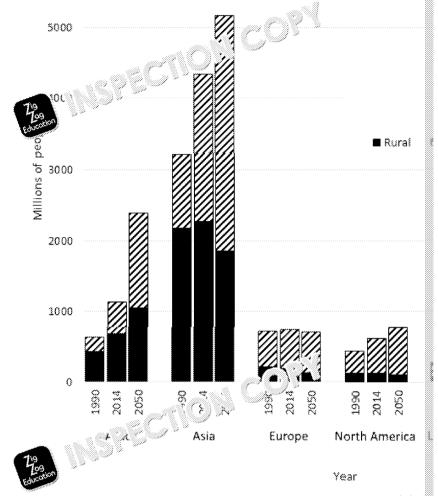


Makola market in Acciactivity. Ghana is an emfast and the urban population of the second control of the second

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People moving from the countryside to urban areas in search of a better qualimigration (a form of national or internal migration). People moving into a consettle in urban areas. This can also cause urbanisation because it leads to an illiving in urban areas compared to rural areas. This is one of the main causes countries.



**Figure 1.2:** Variation in urbanisation between global Data source: World Urbanization Prospects, United National

Study Figure 1.2 and answer the following questions:

- (a) Define urbanisation in your own words. (2)
- (b) Name the global region that will have the largest population in 2050. (1)
- (c) Identify the two global regions that will see the greatest amount of urbanisation between 1990 and 2050. (2)
- (d) Compare urbanisation in North America 2 20. signom 1950 to that anticipated in 2050 by:
  - (i) describing for each how how portion of the population living in urbaness changed link your descriptions
  - (ii) the whereas' (2) how changes to the proportion of people living in urban areas are similar or different (2)
- (e) Explain why the rate of urbanisation is predicted to continue increasing rapidly in Asia and Africa. (4)

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## Extension 1.2.1----

The proportion of the population living in urban areas in global regions such and Latin America is predicted to continue to grow to 2050, although at a sa Asia and Africa. Suggest two reasons why urbanisation is slower but continued to grow to 2050, although at a same suggest two reasons why urbanisation is slower but continued to grow to 2050, although at a same suggest two reasons why urbanisation is slower but continued to grow to 2050, although at a same suggest two reasons why urbanisation is slower but continued to grow to 2050, although at a same suggest two reasons why urbanisation is slower but continued to grow to 2050, although at a same suggest two reasons why urbanisation is slower but continued to grow to 2050, although at a same suggest two reasons why urbanisation is slower but continued to grow to 2050.

**Tip:** When you <u>suggest</u> a reason you must justify what you are saying. Think a point, e.g. could you give examples to support your reasoning?

## 1.3 Task

We can characteristic with the rate of urbanisation in developed, developing (a) Use pital letters to annotate the correct part of the graph:

- A. development.
- B. Urbanisation has increased but remains relatively low in countries t
- C. Around 2015, developed countries became over 80% urbanised.
- D. In future, the rate of urbanisation will increase in developing countril
- E. It is likely that the rate of urbanisation of emerging countries will slow they are undergoing have occurred.
- F. By 1950, urbanisation was already high in countries that had industrice Revolution.

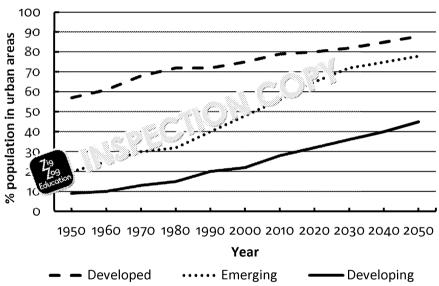


Figure 1.3: Global patterns of urban change Data source: United Nations, 2014

- (b) Line graphs clearly show trends (i.e. the way in which something is changed quickly the line on the graph is steeper. When urbanisation occurs more closer to flat the slower the change.
  - (i) State what a flat line on the graph of ducate. (1)
  - (ii) Calculate the growth in course to developed
  - countries between 1980 and 2020.

    (iii) Calculates at of urbanisation in developing
  - (iv) pare the rate of change for emerging countries between the periods 1980 and 2020 with that projected between 2030 and 2050.

## **Annua** 10 years

10 year the hov

(1)

(2)

(3)

**Growtl** change time.

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## Extension 1.3.1

In 2014, Rwanda had an urban population of 3,369,000. That year it was the fastest urbanising country in the world with an annual percentage growth of 3.7%. Presuming it continues to urbanise at this speed what would you expect its urban population size to be in:



(b) 2020?



Kigali city in

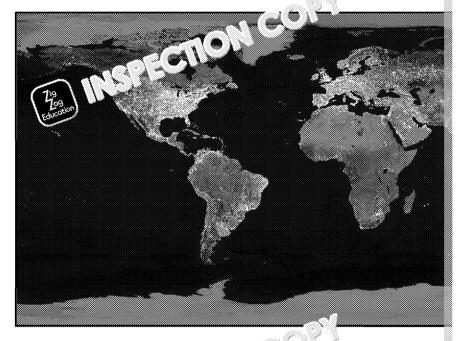


## 1.4 Plenary

Look at the image below, created from satellite photographs taken from space by Agency) in 1995. You can see urban areas lit up by electric lighting. By 2030, 70% in an urban area and 1 in 3 of us in a city with over half a million inhabitants (that Your task is to create a short song, rap or poem to describe the distribution of urbanges they will experience during your lifetime. It should only take a maximum

It should help your fans understand:

- where the lights are on and where they are not
- why they are shining
- how what you would see now from space would have changed since 199
- how the number and distribution of the lights will change in future



Get into teams of four. Listen to three of your sless mates perform their lyrics according to how well their lyrics and you are understood what they learns

| How well the following?   | Ma<br>mar |
|---|-----------|
| What uri education on is  | 7         |
| Where most people living in urban areas can be found                  | 2         |
| How the rate of urbanisation is different in different global regions | 4         |
| Where urban areas are most likely to grow in future                   | 2         |
| Tota  | l out of  |

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## -Extension 1.4.1-----

Consider the impact that access to electric lighting has on the image —you sereflect the fact that parts of the world will be lit up more brightly in future better access to lighting, not just because there are more people living together.





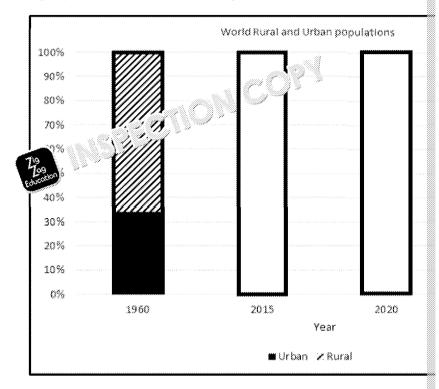


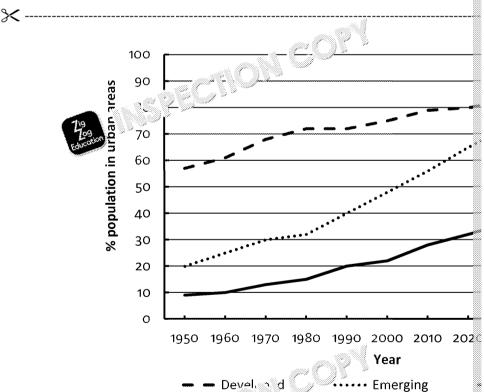
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## Bar chart (Starter 1.1) and line graph (Ta

Make as many copies as students - cut out and give one to each student





- A. The rate of urban a seriencing a lot of economic
- C. Around over 80% urbanised.
- E. It is likely that the rate of urbanisation of emerging countries will slow down once the rapid changes they are undergoing have occurred.
- B. Urbanisation ha
- D. In future, the ra
- F. By 1950, urbanis that had industrated Revolution.

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## Peer-assessment marking (Task1.4)

Make two copies - cut out and give one table to each group

| How well did the lyrics show understanding of the following?  | Ma<br>ma≝ |
|---|-----------|
| What urbanisation is  | 2         |
| Where most people living in urban area ar โดยเป็นที่          | 2         |
| How the rate of urbanisation and the different global regions | 4         |
| Where urban areas a rounkely to grow in future                | 2         |
| Total   | outo      |



| How well did the lyrics show understanding of the following?          | Ma<br>ma |
|---|----------|
| What urbanisation is  | 2        |
| Where most people living in urban areas can be found                  | 2        |
| How the rate of urbanisation is different in different global regions | 4        |
| Where urban areas are most likely to grow in future                   | 2        |
| Total   | out c    |



| How well did the lyrics show und in joing of the following?   | Ma<br>ma |
|---|----------|
| What urbanisation is a second of the second | 2        |
| Where je ve ve aving in urban areas can be found  | 2        |
| How the different global regions  | 4        |
| Where urban areas are most likely to grow in future   | 2        |
| Total   | outo     |



| How well did the lyrics show understanding of the following?   | Ma<br>ma |
|--|----------|
| What urbanisation is   | 2        |
| Where most people living in urban areas can be found   | 2        |
| How the rate of urbanisation is different in | 4        |
| Where urban areas are most likely to give in Gure  | 2        |
|  | outo     |
| 7.3  |          |



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## Lesson 1: Answers

## Abbreviation of Assessment Objectives (AO):

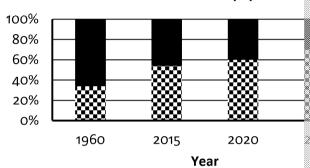
- Knowledge
- Understanding 2.
- Application of knowledge and understanding 3.
- 4.

## 1.1 Starter

increase in the proportion / of a population living in tov (a) AO1 Urb



## World Rural and Urban populations



■ Urban Rural

Figure 1.1: Global urbanisation

## 1.2 Task

| Question | АО  | Answer   |                  |
|----------|-----|--|------------------|
| (a)      | AO1 | <ul> <li>Lent definition must:         <ul> <li>understand that it describes a proportional relationship areas;</li> <li>understand that the number of people living in urban a areas.</li> </ul> </li> </ul>  | 000000000        |
| (b)      | A04 | Asia   | 00000000         |
| (c)      | A04 | Africa and Asia  |                  |
| (d)      | AO4 | <ul> <li>(i) Proportion of people living in urban North America has population to over 80% (1), whereas proportion of people increased from approx. 30% to approx. 65% (1).</li> <li>(ii) Changes are similar in that they have both increased (1) increase in North America (5%) was smaller than that in</li> </ul>                | ple<br>) b       |
| (e)      | AO2 | 1 mark for reason and 1 mark for explanation — students shou available so should give and explain two ? leasons for maxim  ■ Countries in Africa and Asignal all eveloping (1) — so and people move there for wak (1).  ■ Africa and (a) eaigh proportions of people living in street and people who might want to move to urban are | iur<br>jo<br>n r |
| <b>C</b> |     |  |                  |



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| Question | AO  | Answer  |
|----------|-----|---|
| Ext<br>Z | AO3 | I mark for reason and I mark for justification or an example. A justification may come from the text, but the example will be fix knowledge and understanding. For example:  The number of people living in urban area is still increasing dustudents may be able to refer to go the amples, e.g. London finance sector, or explain in lorg theral terms, e.g. referring of unskilled work and the eveloping to developed countries of search of the true and analy of life.  The ample living in rural areas have a quality of life as good as or poliving in urban areas so there isn't the same scale of rural—urban able to refer to specific examples, e.g. some people living in urban areas in the country, or explain in more general terms, e.g. people have freshealthcare and utilities in both rural and urban areas, it is more rural areas. |

## 1.3 Task

(a) AO4 Annotations as indicated – there may be some small movement along each annotation.

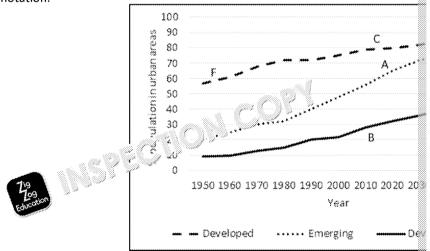


Figure 1.2: Global patterns of urban change



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| Question         | АО  | Answer  |
|------------------|-----|---|
| (i)              | AO4 | No change, the variable remains constant  |
| (ii)             | A04 | Calculate the difference between the first and second point 1980 (72%) and 2020 (80%) = 80 8% Allow + or - 1%   |
| (iii)            | A04 | Calculate the difference is ween the first and second point (1980 for a 200 (32%) = 32 - 15 = 17%) divided by the conduction on the x-axis (2020 - 1980 = 40 years) = 3.0 w + or -0.1   |
| Log<br>Education |     | Rate of change calculated as for part (iii) as follows – 1 mark quoted in the answer:   |
| (iv)             | AO4 | 1980 to 2020: (65 – 32)/(2020 – 1980) = 33/40 = 0.82% per 2030 to 2050: (78 – 72)/(2050 – 2030) = 6/20 = 0.3% per y   |
|                  |     | 1 mark for summarising findings and noticing any relationsh<br>of similarities and differences, e.g. the rates of change are<br>twice as fast between 1980 and 2020 than is expected between  |
| Ext              | A04 | Find 3.7% of the annual population size and add to that size understand that to calculate additional years this must be one 3.7% increase multiplied by the number of years, as poyear.  To 2015, 1 year: $(3,369,000/100) \times 3.7 + 3,369,000 = 3,493$ . To 2020, 6 years: start with 2015 value from part (i) and calculate $(3,493,653/100) \times 3.7 + 3,402 \times 53 = 3,622,918$ . $(3,493,653/100) \times 3.7 + 3,402 \times 53 = 3,622,918$ . $(3,758,446/100) \times 3.7 + 3,897,509 = 3,897,509$ . $(3,622,918/100) \times 3.7 + 3,897,509 = 4,041,717$ . |

## 1.4 Plen AO1, 2 and

Assessed through peer-assessment

| How well did the lyrics show understanding of the following?  | N<br>m∈ |
|---|---------|
| What urbanisation is AO1  |         |
| Where most people living in urban areas can be found AO1  |         |
| How the rate of urbanisation is different in different global regions AO2   |         |
| Where urban areas are most likely to grow in future AO3   |         |
| Total Control of the | l out   |



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## Lesson 2 Overview: Megacities and



Learning questions: What are megacities and how are they changing

New key terms: economic influence, political influence, megacity, world ci

Associated Task Sheet: 2 – pages 28 – 32
Associated PowerPoint file: Lesson 2 op 3.

## 2.A Preparation

ICT – Fi 2.4 of the lesson you will need Internet access to:

https://www.theguardian.com/cities/2015/nov/23/cities-in-numberschange-the-world#img-1

or photocopy this image before the lesson\*

Worksheets and resources for photocopying:

| For event | Description                                  | Page(s) | Photocopies 1    |
|-----------|--|---------|------------------|
| 2.1       | Choropleth map of distribution of megacities | 33      | Number of studen |
| 2.2       | Urban primacy card sort                      | 34      | Number of studer |
| 2.4       | Growth rate of megacities table              | 35      | Number of studen |
| 2.4       | *Copy from the <i>Guardian</i> website       |         | Number of studen |

Other resources you may need to provide

- ✓ Calculators
- ✓ Glue, stapler or hold of attach worksheets

## 2.B Ind 12 I student planning

Use this section to tailor your lesson plan to individual students in your class.

|       | Student(s)    | Detail of action |
|-------|---------------|------------------|
| G&T   |               |                  |
| SEN   |               |                  |
| EAL   | 7.3 MSP (SC). |                  |
| Other | Education     |                  |

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## 2.C Teaching and learning plan

| Suggested<br>time | Event                                      | inwactions   | Stud<br>works |
|-------------------|--|--|---------------|
| 10 mins           | Zog<br>Zog<br>correction<br>2.1<br>Starter |  |               |
| 20 mins           | 2.2<br>719 sk<br>709<br>Education          | Instruction to students: working independer** ) match the definitions and examples and write them into vortice for control (b) to (e) calculate the increase in number of meticiles in a global area to 2030 and plot the data on the trace map and describe the pattern.  Teaching streety to student skills by supporting creation and introduction outcome:  And know definitions of terms megacity, primate city, world or global city, and that megacities are increasing in number.  Most: can describe the pattern of megacities across the world in terms of their number and distribution.  Some: can justify their choice of statements describing the global pattern in the growth of megacities by referring to the text and numerical evidence. | Choro<br>map  |



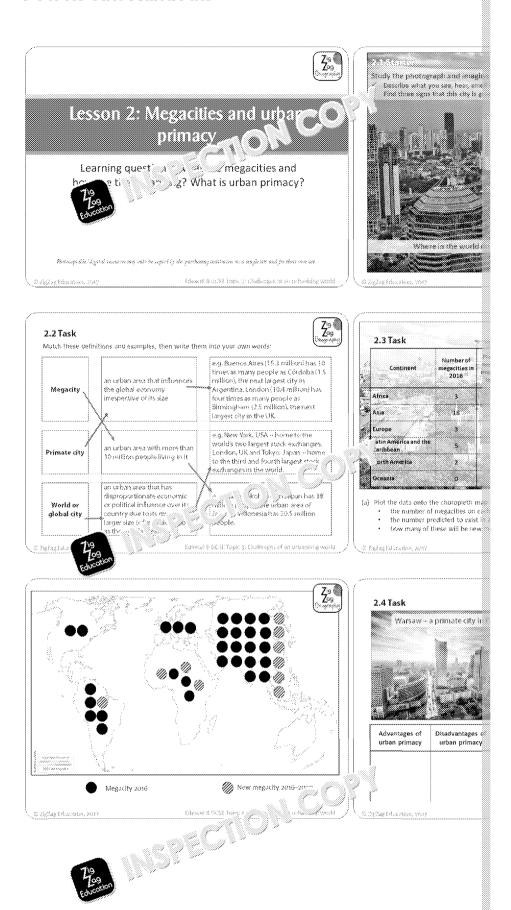


| Suggested<br>time | Event                                 | Task in-^-; and  | Stud<br>works |
|-------------------|---------------------------------------|--|---------------|
| 20 mins           | 79<br>709<br>Education<br>2.3<br>Task | Instruction to students tin arts, create a mini mind map of the points to note of the points the advantages and disadvantages and asking reading of the points of the points of the points of the points the points of the p |               |
| 10 mins           | 2.4<br>Plenary                        | Instruction to students: "C  |               |





## **PowerPoint Handouts**



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## Z<sup>19</sup> Advantages Disadvantages The economic another effect (i.e. arms job) more world), more so bright market, costless reserved that the world present out instruction are as aurounding the city. People in positions of power live and work within the city - these may be politicians working in the national government or The city translation services than the surrounding other recent and cities within attracts new house. heads of major companies, e.g. transnational companies, that have influence on the economy. Transcritional companies decide what goods as will be attended to time city and what will be a STIC locate six your city it will bring ensured and employment to the city. Advantages Disadvantages The city is the financial ceiter of the country, if Jurge encough it sulf-become the financial ceiter global region, attaching more over timent from magazines more jobs and more wealth to the Improved rights for women and minority People living in other urban areas and th countryside may feel uninvolved (2004) happening in the city (2011) sin (2004) disententials (2012). groups in the city can lead to changes in legislation and work practices that disorfanchind disorfance disorfanchind disor The city has good transport link sto the rest of a enabling trade into and out of the country. This through an externational above, post or railway. improve the lives of people living in other parts of the country. The wide range of people, from all walks The wide range of people, from at waxs of life and all differ ent background makes people must be a set of a ground another will determine the ground state of the gro The city is well connected to other subseques rood. Decrease it is easy to get geochistic and is city the senounding encaperate from trades dty and beyond. separate from society). Edescri B G-15E Ponic at Challenges of an enhanking sond Si Digitagrédi katéna, 2017

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## Task Sheet 2: Megacities and urb



**Learning questions**: What are megacities and how are they changing

New key terms: economic influence, political influence, megacity, world ci

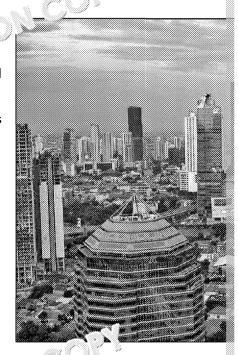
## 2.1 Starter

Study the photograph and imaginare here:

- Des wh see, hear, smel and
- ✓ Look for three signs that this city is growing.

Be ready to explain your thinking.

Where in the world do you think the photograph was taken?



## 2.2 Task

Cities vary greatly in size. The mainty are small, with fewer than a million people, but some or will of mants, sprawling out in all directions, swallowing up village the manual even other cities around them. In 2016, 512 cities had more that the million inhabitants and 31 of these had over 10 million people, making them megacities. These numbers will increase as urban population increases across the world. By 2030, we could see 661 millionaire cities (more than one million residents) and 41 megacities, with 29 cities crossing the five million people mark (15 of which are in Asia and 10 in Africa).

City limits are usually defined by local authority boundaries because in reality urban development sprawls into the surrounding area, swallowing up towns, villages and sometimes other cities. This process is called **agglomeration**.

Urban conurbations (also called metropolitan areas) are created in an UK we often use the term ("real in before a city's nance at that he can be considered with a particular pa

Not all cities are increasing rapidly. Some of the largest cities developed quickly during the twentieth century, moderate speed, e.g. Los Angeindustries that they depended been some by natural disaster cit. So which were relatively smearperiencing very rapid growth.

Some cities may not grow into important to the world. These They play a significant role in the cultural or political centres.

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(a) Match and write out in your own words these definitions and examples for World or Global city.

## Megacity

an urban area that influences the global economy irrespective of its size.

e.g. 8 times millio Arger four 8 Birm



an urban area with more than 10 million people living in it.

e.g. Norlasto the exchange

World or global city

an urban area that has disproportionate economic or political influence over its country due to its much larger size (often twice as big as the next largest city).

e.g. Ti milli Jaka peop

(b) Plot the following data onto the choropleth map worksheet to show the continent in 2016, the number predicted to exist in 2030, and how many The data for Africa has been plotted for you.

|                                    | Number of          | Predicted nur        |  |
|------------------------------------|--------------------|----------------------|--|
| Continent                          | megacities in 2016 | of megacitie<br>2030 |  |
| Af 19                              | 3                  | 6                    |  |
| Asia Education                     | 18                 | 24                   |  |
| Europe                             | 3                  | 3                    |  |
| Latin America and the<br>Caribbean | 5                  | 6                    |  |
| North America                      | 2                  | 2                    |  |
| Oceania                            | 0                  | 0                    |  |

Table 2.1: Megacities of the world 2016 and 2016

- (c) Describe the predicted distribution of megacities across the world by 2030. (2)
- (d) Describe the pattern of change you expect to enumber and size of all cities up to (3)
- (e) Look at the list of notices by 2030. Suggest two reasons why not of the list of notices by 2030. Suggest two reasons (4)

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## Extension 2.2.1

Select which of the following statements best describe what you expect to megacities worldwide between 2030 and 2050.

- Megacities in Europe and North America will continue to grow due to countries.
- There will be new megacities in Europe and North America as the population of the population o
- 3. There will be fewer new megacities in arth a r.d Asia because urbanismajority of the population have a see to urban areas.
- 4. The number of mes are solutional to increase in Africa and Asia continues
- 5. The wine famincrease in the number of megacities in Oceania because the quality of life.
- 6. There will be many more megacities in Latin America.

## 2.3 Task

**Urban primacy** is the disproportionate economic or political influence that so urban areas have over the rest of their country. A **primate city** may be a megathis is not always the case, e.g. Warsaw (1.75 million) is the primate city of Political Kingston (0.6 million) is the primate city of Jamaica. There are three points to about urban primacy:

- 1. Primate cities usually develop where their location has enabled them to with other countries and/or they have held the seat of power, e.g. Dhaka million), the capital of Bangladesh, was historically a major trading centre region and then an administrative capital during the colonial rule. To Dhaka remains Bangladesh's cultural.
- 2. Often a primate city is the some capital cities do not have an analysis within their own countries. For
  - where Sao Paulo (21.3 million) and Rio de Janeiro (11.3 million) have greater economic influence over the country than its capital and seat of power Brasilia (4.2 million)
  - USA, where New York (18.6 million) and Los Angeles (12.3 million) are greater drivers of the US economy than its capital Washington DC (5 million)
- 3. In some very large countries there may be more than one megacity. Each may have disproportionate economic or political influence over the surrounding area of country (both rural and urban areas) but in a diverse effect on the other, e.g. India 2006, 25.4 million), Mumbai (21.3 million) and January 14.9 million); China Shangha (24.5 million) and Beijing (21.2 million).





Warsaw -



Los Angel€

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- (a) Create a mini mind map or find your own way to make brief notes about the three points to note about urban primacy with an example for each. (6)
- (b) Cities that exhibit urban primacy can bring advantages and disadvantages to the wider country. Sort the facts into the correct column of the table:

  (15)

| ರು ನಿರ್ವಾಣ of urban primacy | Disadva |
|-----------------------------|---------|
| Education                   |         |
|                             | l       |

The city has better services than the surrounding area and other towns and cities – this attracts new business.

Migration into the city from rural areas creates a large labour force – this attracts new businesses.

The economic multiplier effect (i.e. more jobs creates more wealth, creates a larger market, creates more jobs, etc.) means that development spreads out into rural and urban areas surrounding the city.

The wide range of people from all walks of life and all different backgrounds makes people more tolerant of one another. Women and ethnical of ty groups are more key prosper in the city.

Having transnational comming (TNC) headquarter in the large may mean and rural areas with the consider new opportunities for investment in the country.

The city is well connected to other urban areas by rail and road.

Because it is easy to get goods into and out of the city, the surrounding areas benefit from trading with the city and beyond.

The city has good transport links to the rest of the world, enabling trade into and out of the country.

This could be through an international airport, port or railway station.

Improved rights for women and minority groups in the city can lead to changes in legislation and work practices that improve the lives of people living in other parts of the country.

The city is the financial centre of the country. If it grows large enough it will become the financial centre of the global region, attracting more investment from private companies, more ich

te contrý.

People in positions of power live and work within the city – these may be politic in working in the national companies, e.g. transnational companies, that have influence on the economy.

(c) Use a key to identify which influences of the primate city are political (to decision-making), economic (to do with money) or social (to do with how

Political influences Economic influences

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## Extension 2.3.1 ----

Assess the extent to which primate cities have a positive effect on the eco

**Tip:** When you are asked to <u>assess</u> the extent of something you should (1) make you believe; (2) back it up by identifying points that support what you say; (3) supports it are not so important. In this case you may we have a say it's totally true, between. It's your choice, but you must show the same as sons for your judger.

For this question, talk about the Allocated Academ Academ

## 2.4 Plenary

Visit https://www.theguardian.com/cities/2015/nov/23/cities-in-numbers-in-change-the-world#img-1 or look at a photocopy of the image. The map shows people arriving each hour to existing and emerging megacities across the work and a partner one city from the map.

- (a) If your chosen city continued to grow at this rate, calculate how many pe
  - (i) in the next 24 hours
  - (ii) in the next year
  - (iii) in the next decade
  - (iv) by 2050
- (b) Compile your class results in the last table of growth of megacities world.

| 7.9<br>7.09<br>Education | Growth rate per day<br>(people per 24 hrs) | Annual growth rate (people per year) | Decad    |
|--------------------------|--|--------------------------------------|----------|
| Africa                   | I  |                                      | <u> </u> |
|                          |  |                                      |          |
| Asia                     | I  |                                      | Г        |
|                          |  |                                      |          |
| Europe                   | T  | l                                    | Г        |
|                          |  |                                      |          |
| North America            | T  |                                      | Г        |
|                          |  |                                      |          |
| Latin America            |  |                                      |          |
| 73.                      |  |                                      |          |

(c) Compare and contrast your findings, looking for patterns in the rate of given

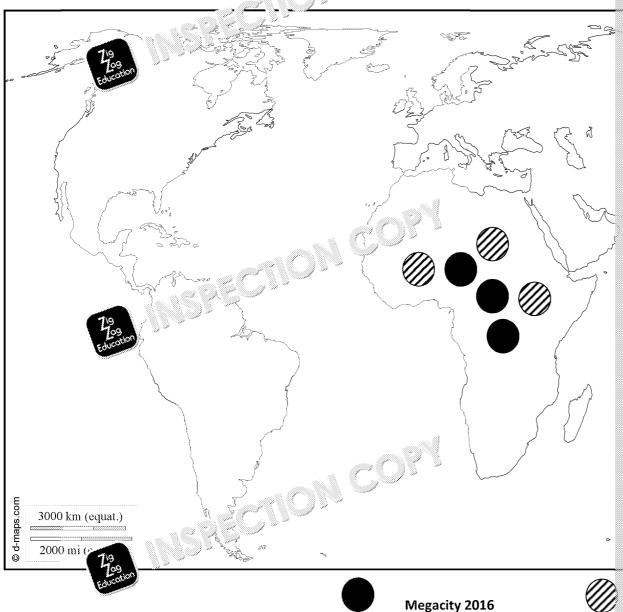
Suggest reasons for the patterns in growth of megacities across global reg

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## Chorgaich pop of distribution of megacitie

Make as many copies as students – handout 1 emin



# S



## **Urban primacy card sort (Task 2.3)**

Make as many copies as students – give one to each student

The city has better services than the surrounding area and other towns and cities - and attracts new 14.74.55.

Migraian to the city from Iraiareas creates a large abour force – this attracts new businesses.



X

The economic multiplier effect (i.e. more jobs creates more wealth, creates a larger market, creates more jobs, etc.) means that development spreads out into rural and urban areas surrounding the city.

The wide range of people from all walks of life and all different backgrounds makes people more tolerant of one another.

Women and ethnic minority groups are more likely to prosper in the city.

Having transnational companies' (TNC) headquarters in the city may mean that other urban and rural areas coverlooked when the country.

The city is well onnected to other urital areas by rail and d. Ocause it is easy to get goods into and out of the city, the surrounding areas benefit from trading with the city and beyond.

The city has good transport links to the rest of the world, enabling trade into and out of the country. This could be through an international airport, port or railway station.

Improved rights for women and minority groups in the city can lead to changes in legislation and work practices that improve the lives of people living in other parts of the country.

The city is the financial centre of the country. If it grows large enough it will become the financial centre (it a financial centre (it

more wealth to the country.

Peop' it sitions of power a work within the city – these may be politicians working in the national government or heads of major companies, e.g. transnational companies, that have influence on the economy.

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### Growth rate of megacities table (Task

Make as many copies as students/2 – give one table to each student

| City             | Growth rate per day<br>(people per 24 hrs) | Annual growth rate (people per year) | Decad<br>(people |
|------------------|--|--------------------------------------|------------------|
| Africa           | T  |                                      | I                |
|                  |  |                                      |                  |
| Asia             |  | ,                                    |                  |
| 269<br>education |  |                                      |                  |
|                  |  |                                      |                  |
|                  |  |                                      |                  |
| Europe           | T  | I                                    | Ι                |
|                  |  |                                      |                  |
| North America    | T  | T                                    |                  |
| Latin America    |  |                                      |                  |
|                  |  |                                      |                  |
|                  | <u> </u>                                   |                                      | <u> </u>         |

| _ | _ |
|---|---|
| Q | _ |
| 7 | • |
|   | • |

| 79<br>709<br>54 scattor | Growth rate per day<br>(people per 24 hrs) | Annual growth rate (people per year) | Decad<br>(peopl⊜ |
|-------------------------|--|--------------------------------------|------------------|
| Africa                  |  |                                      |                  |
|                         |  |                                      |                  |
|                         |  |                                      |                  |
|                         |  |                                      |                  |
| Asia                    |  | Γ                                    |                  |
|                         |  |                                      |                  |
|                         |  |                                      |                  |
|                         |  |                                      |                  |
|                         |  |                                      |                  |
| Eurona                  |  | <u> </u>                             |                  |
| Europe                  |  |                                      |                  |
|                         |  |                                      |                  |
| North Amaga             |  |                                      |                  |
| 79.                     | · T  |                                      |                  |
| Latin America           |  | <u>l</u>                             |                  |
|                         |  |                                      |                  |
|                         |  |                                      |                  |
|                         |  | L                                    | <u> </u>         |

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## **Lesson 2: Answers**

### Abbreviation of Assessment Objectives (AO):

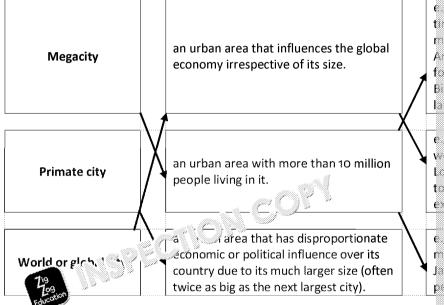
- 1. Knowledge
- 2. Understanding
- 3. Application of knowledge and understanding
- 4. Skills

### 2.1 Starter

This is a free-thinking the eacher are no right or wrong answers as such. Assessmente teacher and suggestions.

### 2.2 Task

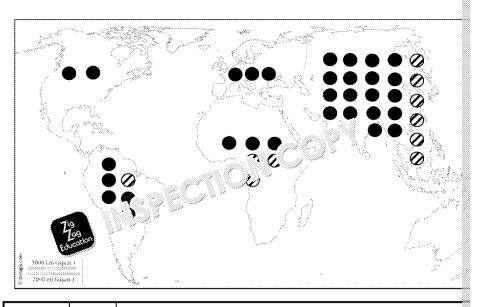
(a) AO1



(b) AO4 credit 2 marks for correctly plotting the data onto the map for each global megacities (1) must be correct).

| Continent                                  | Number of megacities in 2016 | Predicted num<br>megacities in |
|--|------------------------------|--------------------------------|
| Africa                                     | 3                            | 6                              |
| Asia                                       | 18                           | 24                             |
| Europe                                     | 3                            | 3                              |
| Latin America and the Caribbean            | 5                            | 6                              |
| North America                              | 2                            | 2                              |
| Oceania                                    | 0                            | О                              |
| 720 J. |                              |                                |





| Question   | AO  | Answer   |
|------------|-----|--|
| (c)        | AO1 | 1 mark for any correct statement up to a maximum of 2 marks:<br>The majority of megacities will be in Asia (24) / There will be a secure and North America (3 and 2 respectively) / There will be Africa and Latin America will each have 6 megacities.  |
|            |     | Any observations pertaining to E or W, N or S are incorrect as to cannot be seen from the data.  |
| (d)        | AO1 | Care is needed to read this question — it is about <u>all</u> cities, not just a mark for any correct statement up to a maximum of 2 marks:  Most cities will get larger although the end of the will be more will agglomerate to form the text or taken above).  |
| (e)        | AO2 | 1 mark for reason and 1 mark for further explanation — students learning from lesson 1 and apply this to answer the question.  Rural—urban migration is high because: life in rural areas of Afric because people don't have such good access to resources and scountries in Africa and Asia are developing, leading to urbanisations and cities in pursuit of better quality of life.  There is a large proportion of the population living in rural area could move to urban areas so the growth of urban areas is likely  |
| Ext. 2.2.1 | AO2 | 1 mark for the identification of each of the two accurate statem for evidence to support each statement. For example:  Megacities in Europe and America will continue to grow due to countries – developed countries are generally highly urbanised migration to urban areas will lead to their growth. This is likely of growth than rural—urban migration in the country.  The number of megacities will a to increase in Africa and migration continues a Asia have high proportions of areas and arguments a So it is likely that there will be a lot of future and sandard of living improves in rural areas, people and surface and income that urban areas provide. |

### 2.3 Task

- (a) AO1 Credit 1 mark for recording each of the three points plus 1 mark for each example 1.
- (b) AO2 Credit 1 mark for each correct advantage and disadvantage.
- (c) AO2 Credit 1 mark for correct identification of political, economic and social infl

Key: **P** = Political influences **E** = Economic influences **S**: Social influences \*Relevant arguments for the extension

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| Advantages of urban primacy  |   | Disadvar  |
|--|---|---|
|  |   | The city grows wea<br>share this wealth w   |
| The city has better services than the surrounding area and other towns and cities – this attracts new business.  | E | people there will ge  |
| *New business generates wealth for the economy of the country.   |   | wealth is not share is affecting the ecope who live the                                     |
| Migration into the city and a reas creates a large labour for the city and a new businesses.   | E | People living in oth countryside may fe happening in the ci disenfranchised, fo             |
| The economic multiplier effect (i.e. more jobs creates more wealth, creates a larger market, creates more jobs, etc.) means that development spreads out into rural and urban areas surrounding the city.  *The multiplier effect is creating economic growth and this is spreading out into other parts of the country. | E | Individuals from mi<br>diversity of the city<br>and other urban are<br>(treated as separate |
| The wide range of people from all walks of life and all different backgrounds makes people more tolerant of one another. Women and ethnic minority groups are more likely to prosper in the city.  | S | People move to the creating a shortage rural areas.  *The economies of struggle to grow.    |
| The city is well connected to other urban areas by rail and road. Because it is easy to get goods into and out of the city, the surrounding areas benefit from trading with the city and beyond.  *Good links to other parts of city arean that the primate city encours and a sworthere too.                            | E | Having transnation in the city may mea are overlooked who opportunities for in              |
| The city 19 and ansport links to the rest of the world, enabling and out of the country. This could be through an international airport, port or railway station.  | E |   |
| Improved rights for women and minority groups in the city can lead to changes in legislation and work practices that improve the lives of people living in other parts of the country.   | S |   |
| The city is the financial centre of the country. If it grows large enough it will become the financial centre of the global region, attracting more investment from private companies, more jobs and more wealth to the country.   | E |   |
| *More companies and jobs means more economic growth for the country.   |   |   |
| People in positions of power live and work within the city – these may be politicians working in the cational government or heads of major companies, that tweether the economy.   | P |   |
| Transna 79 or. The decide what goods and services offered within the city and what will be exported. If a TNC locates in your city it will bring economic growth and employment to the city.   | £ |   |
| *If the economy of the city grows then the economy of the country will grow.   |   |   |

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### Extension 2.3.1

AO3 Award 1 mark for each of the following – marks should be awarded progressively an argument against the judgement is not introduced.

| Mark | Answer  |
|------|---|
| 1    | Summarises a judgement  |
| 2    | Gives an argument in support of the judgement                                 |
| 3    | Gives an argument against the judgemen  |
| 4    | Explains the supporting arguments er  |
| 5    | Explains why the arcase ent 3 and the judgement is not as important as the    |
| 6    | Gives fact + 555 or che arguments for and against                             |
| 7    | 100 one argument in support of and against the judgement                      |
| 8    | describes how the answer might be different in a different situation or under |

Relevant arguments are outlined in the table above with a \*

### 2.4 Plenary

| City               | Growth rate per day<br>(people per 24 hrs) | Annual growth rate (people per year) | Decad<br>(peopl |
|--------------------|--|--------------------------------------|-----------------|
| Africa             |  |                                      |                 |
| Johannesburg       | 48   | 17,520                               | 175,200         |
| Kinshasa           | 1,512                                      | 551,880                              | 5,518,80        |
| Lagos              | 2,040                                      | 744,600                              | 7,446,00        |
| Asia               |  |                                      |                 |
| Jakarta            | 648  | 236,520                              | 2,365,20        |
| Tokyo              | -24  | -8,75                                | -87,600         |
| Shenzhen           | 360  | /31. °// × ″                         | 1,314,00        |
| Shanghai           | 1,272                                      | 404,280                              | 4,642,80        |
| Dhaka              | 1,776                                      | 648,240                              | 6,482,40        |
| Delhi              | / 0 /                                      | 692,040                              | 6,920,40        |
| Kolkata            | <i>`,1</i> 58                              | 280,320                              | 2,803,20        |
| Mumba 199          | 1,224                                      | 446,760                              | 4,467,60        |
| Hong Ko. Education | 96   | 35,040                               | 350,400         |
| <b>Ma</b> nila     | 696  | 254,040                              | 2,540,40        |
| Europe             |  |                                      |                 |
| Istanbul           | 456  | 166,440                              | 1,664,40        |
| Berlin             | 24   | 8,760                                | 87,600          |
| London             | 216  | 78,840                               | 788,400         |
| North America      |  |                                      |                 |
| New York           | 240  | 87,600                               | 876,000         |
| Mexico City        | 528  | 192,720                              | 1,927,20        |
| South America      | •  |                                      |                 |
| Sao Paulo          | 432  | 157,680                              | 1,576,80        |
| Rio de Janeiro     | 240  | 87,600                               | 876,000         |

Students should observe that largest growth in a cities in Africa and Asia. The are in developed countries. Tokyo in a fall patining at present.

### Extension

Reasons (1995) Ses of rural—urban migration, industrialisation, international Note that (1996) Figure 1996 and the second second

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## Lesson 3 Overview: Why cities an



Learning questions: What causes the growth and decline of cities aro

New key terms: socio-economic, internal migration, international migratic

Associated Task Sheet: 3 – pages 47 – 50
Associated PowerPoint file: Lesson 3 or 3.

3.A Preparation

Worksh 🗜 d Dources for photocopying:

|              | Education                          |         |                                |
|--------------|------------------------------------|---------|--------------------------------|
| For<br>event | Description                        | Page(s) | Photocopies r                  |
| 3.1          | Cut-out-and-sort cards             | 51      | Number of studer               |
| 3.1          | Rural–urban migration images       | 52 – 53 | Copy duplex: Nun<br>students = |
| 3.2          | Changing cities information sheet  | 54 – 55 | Number of studer               |
| 3.2          | Economic influences on migration   | 56      | Number of studer               |
| 3.3          | 'Call my bluff' cards – two sheets | 57 – 58 | One copy to card               |

Other resources you may need to provide:

### 3.B Individual student planning

Use this section to tailor your lesson rice in uniqual students in your class.

|       | Stud 3.    | Detail of acti |
|-------|------------|----------------|
| G&T   | 770 g      |                |
| SEN   |            |                |
| EAL   |            |                |
| Other | 7-8 states |                |

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<sup>✓</sup> Glue, stapler or hole punch to attach worksheets

### 3.C Teaching and learning plan

| Suggested<br>time | Event                                   | in actions  | Stud<br>works                                 |
|-------------------|---|---|---|
| 10 mins           | Zig<br>Zog<br>control<br>3.1<br>Starter | Instructic stud n: working independently, match the correct color of the images to discover the socio-economic reasons why migrate from rural to urban areas.  Teaching strategy: develop student knowledge of the reasons why people move from rural to urban areas by asking questions, e.g. would this make you want to live in the countryside? Would it make you want to live in the city?  Learning outcome:  All: know some examples of the reasons for rural—urban migration.  Most: understand that some are pushing people out of rural areas and some pulling them to the city.  Some: can suggest whether these factors are unique to developing, emerging or developed countries or whether the might apply in more than one, or all.  | Rural-<br>migra<br>image<br>Cut-oi<br>sort ca |
| 30 mins           | Jog<br>Jog<br>duration<br>3.2<br>Task   | Instruction to students: work, gi densently, read the information sheet and answer the student knowledge and understanding by reading stration. Clarify the concepts and keywords. Model methods of loce-taking for comprehension by (i) noting key definitions, e.g. ask what is internal or national migration, how is this different to international migration, what is a knowledge economy; (ii) drawing a flow chart to make the multiplier effect visual; and (iii) creating a mind map (e.g. four points) of why the economy of a city may decline. Encourage students to refer to your notes as well as the information sheet when answering the questions.  Learning outcome:  All: know how the growth and decline of the last can be caused by economic change and migration.  Most: understand how contributes.  Some: ideal the last rences between reasons for migration to urban a last oped and developing countries and the role of economic in creating these. | Chang<br>cities<br>inforn<br>sheet            |

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| Suggested<br>time | Event                        | Task ir in the second s | Stud<br>works       |
|-------------------|------------------------------|--|---------------------|
| 20 mins           | 719<br>7209<br>chiecation ry | Instruction to students tin adms of 3 or 4, play 'Call my bluff'. There are seventially. Determine which definition is correct: nation tic, accruational migration, rural—urban migration. Deliant file aon, global shift, counter-urbanisation, re-urbanisation, re- | 'Call m<br>bluff' c |







### **PowerPoint Handouts**



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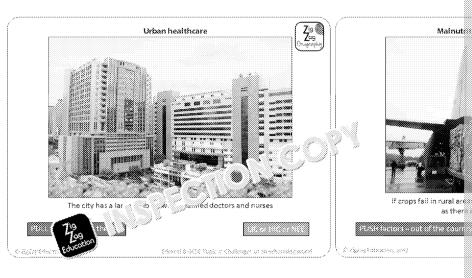


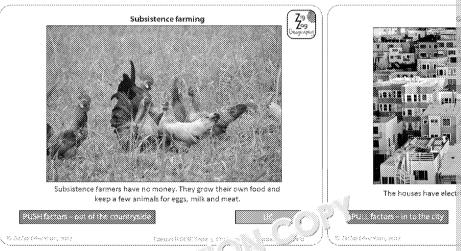
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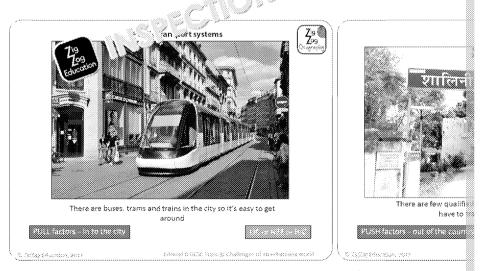


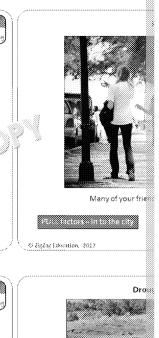
















Farming



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Edicard B GGSE Fonto in Challenger of an enterthing-incorporal

### 3.3 Plenary

### To play:

- Choose any two teams to stait
- Each player from the first team aloud to the class (don't reve
- The opposing team may confi
- When the team has made the truth the rest of the class show guessing team and thumbs div Your teacher will count the new
- 6. When the card is revealed, th of votes that were cast in agr or blue team.
- The two teams should then s
- keyword. 8. When both teams have playes involved with the game.

G BigCa; Eberadion, 2017





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## Task Sheet 3: Why cities are c



Learning questions: What causes the growth and decline of cities aro

New key terms: socio-economic, internal migration, international migratic

### 3.1 Starter

Write or stick the caption next to the socio-economic reason to urban areas Usin key inarcate which factors are pushing people towards urban areas and which are pulling people towards urban areas.

Push facto

Pull factors live in the c

### Extension 3.1.1----

Use symbols to indicate which of these factors would apply in a developing country. The answer could be all or more than one. Complete the key to symbols mean.

Adverse weather conditions can cause crops to fail.

The city has lots of different entertainment and leisure facilities – theatre, cinema, sports centres.

There are few qualified doctors and nurses in rural areas. People travel many miles to see a factor.

There are more opportunities for better-paid jobs in the city.

Narrow dirt tracks may be the only way in and out of the village.

In the Suprayside it can be succeo get to school and you may have to travel a long distance.

Many 19 p pie you already know city.

The climate is so dry that the land is turning to desert. You can't grow anything and your animals

Except in slum areas, most buildings have electricity and running water and are well built.

There are more schools and universities to choose from in the city.

### KEY

| Push factors – out of the countryside |  | P |  |
|---------------------------------------|--|---|--|
|---------------------------------------|--|---|--|

Developing For arging



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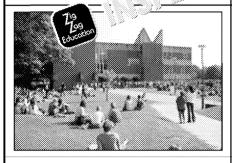






Rural road ne' 🔊 🚶 🥕

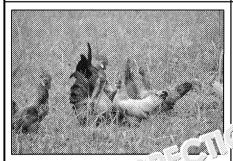
Desertification





Higher education

Urban healthcare





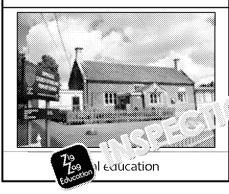
Good-quality housing

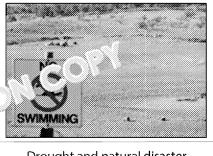




Rural healthcare

**Farming** 





Drought and natural disaster

### 3.2 Task

Use the 'Changing cities' information sheet to answer the following questions. you can use them to revise. Use the number of marks to work out how much

- (a) Economic change often leads to migration and urban growth.

  Identify the statement that best describes the meaning of economic change.
  - i. The increasing wealth of a country
  - ii. The process by which a country urbanics
  - iii. A transformation in the way money is a merated within a country
  - iv. The money that is left for the country has spent its budget
- (b) Where would v is to find a knowledge-based economy attracting s
  - i. justify it is a merging country that has lots of universities
  - ii. Vin a developed country that has attracted many low-skilled
  - iii. In a city in a developing country that has benefited from the global s
  - iv. In a city in a developed country where the economy has a specialise
- (c) (i) Define rural—urban migration.
  - (ii) Name two reasons why people might be attracted to an urban area
  - (iii) Explain why people might want to leave the countryside to move to
- (d) (i) Describe the de-multiplier effect of economic decline.
  - (ii) Explain why cities in developed countries suffer de-industrialisation
  - (iii) Suggest how regeneration leads to international migration to a city
- (e) (i) Sort the reasons for growth and economic influences on migration in Look out for the red herring.

**Tip:** When you <u>suggest</u> a reason you must its self, hat you are saying. I your point, e.g. could you give examples to self your reasoning?

Economic influences on migration in emerging countries



The city has already industrialised and grown rapidly. Growth will continue for another decade although rural–urban migration is expected to slow down as the country becomes increasingly urbanised.

Some cities are declining due to deindustrialisation or counter-urbanisation.

Low-skilled internal and international migrants are attracted by:

- opportunities for employment in the construction industric
- improvements in the conditions (a) the barries of the conditions (b) the conditions (b) the conditions (c) the conditions (c

jo' ' ' ' ' je jerviće sector vo ' Jag in low-skilled jobs for Nics The city attracts increasing numbers of s'illed international migrants, at a tertiary sector everys. They are attracted to work for TNCs which have been drawn to the city by its recent investment in infrastructure (ports airports and road systems) and established industrial zones.

Low-skilled international migrants are attracted by higher wages and opportunities to work.

Internal and international migration brings highly skilled workers to work in specialist areas of the economy.

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(ii) Compare reasons for migration due to economic change in emerging countries.

In geography we often refer to **skilled and unskilled workers**. This he experienced a person is, how much they will be paid and what their staworkers have attained some specialist knowledge or expertise either thin industries require both types of worker to be a scalar.

### Extension 3.2.1----

Cities in developin and developed countries are at various stage. This report the sypes of job that attract people to them vary. Assess that the sponsible for the growth of cities in developed and developing the system.

**Tip:** When you are asked to <u>assess</u> the extent of something you should (1) make believe; (2) back it up by identifying points that support what you say; (3) say we so important. In this case you may want to say it's totally true, totally false or scenoice, but you must show there are reasons for your judgement.

For this question talk about the economic advantages of the primate city to the important the disadvantages are. Say which set of arguments you believe out to back up your ideas. Finish by saying how things might be different if the situdifferent city or if there were different conditions, such as the economy going in

### 3.3 Plenary

You are going to play a version of 'Call my bluff' Far are the eight new key Divide yourselves into groups of three or fair. Far group will be assigned a You can create your own definition for a seyword you have been assigned those on the cards provide a variety careful not to reveal when anyone in the classical ay.

- 1. Cho two teams to start the game.
- 2. Each player from the first team should read the definition for their keyw whether it is a truth or a bluff!).
- 3. The opposing team may confer to decide which definition is the truth.
- 4. When the team has made their guess of which of the opposing team is tell should cast a vote thumbs up in agreement with the guessing team and 'bluffing' team.
- 5. Your teacher will count the number of thumbs up and thumbs down.
- 6. When the card is revealed, the team who has won the round scores the agreement with them allocate the points to the red or blue team.
- 7. The two teams should then swap roles to play a new round based on a n
- 8. When both teams have played swap around to let another two teams ge

Continue until all four rounds have been played or a four out of time!

| National migration    | International migration | Rural–urban migi |
|-----------------------|-------------------------|------------------|
| Deir Lauren alisation | Counter-urbanisation    | Re-urbanisatio   |

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### **Cut-out-and-sort cards (Starter 3.1**

Make as many copies as students/3 – cut out and give one set to each student

## Adverse weather conditions can cause crops to fail.

The city has lots of different entertainment and leisure facilities theatre, cinema, sports centres.

There are few qualified docto and in nurses in rural areas 2 a doctor.

Many of core ople you already know and care about live in the city.

The climate is so dry that the land is turning to desert. You can't grow anything and your animals starve.

There are more opportunities for better-paid jobs in the city.

Narrow dia a say be the only was in a sout of the village.

of the countryside it can be difficult to get to school and you may have to travel a long distance.

Except in slum areas, most buildings have electricity and running water and are well built.

There are more schools and universities to choose from in the city.



## Adverse weather conditions can cause crops to fail.

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The cli so dry that the land is turning to desert. You can't grow anything and your animals starve.

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In the count and it is an be difficult to get to soft of and you may have to travel a long distance.

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' ot ...slum areas, most buildings 'ave electricity and running water and are well built.

There are more schools and universities to choose from in the city.

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### Rural-urban migration images (Starter

Copy duplex – make as many copies as students – give one to each student

KEY

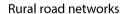
PUSH factors – out of the countryside

PU

Developing

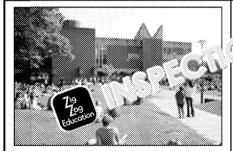
:m\_rging







Desertification



Higher education



Urban healthcare



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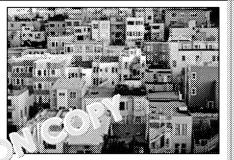
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Subsistence far



Good-quality housing

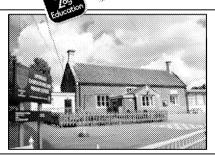




Rural healthcare



Farming



Rural education



Drought and natural disaster

### Changing cities information sheet (Task

Make as many copies as students/2 – give students one between two

People move to towns and cities for different reasons depending on their personne from. Some arrive from other towns and cities, some from villages and persecution or war or simply looking for a better job people come from national migration) while others come from one personners.

One of the most signification of migration across all cities of the world is countried to strain manufacturing and service industries grow (i.e. second primary lies mechanise, meaning fewer jobs in farming, forestry and migration work in the factories and offices of the city. The migration of people from is called **rural-urban migration**.

Urban areas make the most efficient locations for secondary and tertiary industrial skilled workforce and a large market. They create jobs, providing opportunities income and standard of living, and offer social opportunities (because there is healthcare). As more people are attracted to live in urban areas, more jobs and resources they need, and so more jobs are created, attracting more people.

As a city's economy evolves, quaternary-sector industries may develop in specialised areas, e.g. finance or technology. Intellectual industries congregating in the city need people with specialist skills and qualifications and will attract people from all over the world. This is a **knowledge economy**. As the economy changes, wage and more people are attracted to work in that country.

When the economy of a city doing sopple move away to find jobs and a better quality of the conomy may starting actions and number of reasons:

- 1. A magnetic in the city closes or makes redundancies (deindustrialisation). This might be for the following reasons:
  - Its offices and factories are relocated to where labour is cheaper relocated manufacturing and services from developed countries to e.g. from the UK, clothing manufacturing has moved to China, call certailed the global shift.
  - It mechanises more of its processes, meaning fewer staff are needed
  - The industry goes into decline and/or the company goes bankrupt, esteel production in Sheffield, UK.
- 2. Natural disaster causes so much damage to the city that businesses cannot operate, e.g. New Orleans, USA still feets and hybridal, economic and cultural effects of Hurrican (Karria (2005).
- 3. Changes to the transport nety commean people no longer need to travel through the great in, out or around the country, e.g. Buf 19 SA pare the population has declined 50% since air trav me cheaper and the railways declined.
- 4. People become more affluent and move out of the city for a better quality of life living in commuter settlements (**counter-urbanisation**), leaving only the poor to pay the city's taxes the city cannot afford to pay for services and may go bankrupt.

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Just as the multiplier effect can create a cycle of increasing wealth and growth, the economic decline of a city can follow a similar but opposite cycle (a de-multiplier effect). The wealthy leave first because they have the means to do so and can find alternative work. Income that they would generate leaves the city and the local authority struggles to provide se cannot find work and their quality of life declines.



London Docklands, previously the site of derelict warehouses, has been regenerated into a thriving new business district.

In saccounts the regeneration of cart. sation. New businesses are redeveloped buildings or attractive Docklands financial district, UK. New green space attract people back to





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### Economic influences on migration (Task

Make as many copies as students/2 – cut out and give one set to each student

The city has already industrialised and grown rapidly. Growth will continue for another decade although rural—urban migration is expected to slow down as the country becomes increasing your urbanised.

Some cities are lining due to deinde an lie con or counter-

Low-sk te ar and internal migrants are attracted by:

- opportunities for employment in the construction industry
- improvements in living conditions for the urban poor
- jobs in the service sectorworking in low-skilled jobs for TNCs

Low-skilled international migrants are attracted by higher wages and opportunities to work.

The city attracts increasing numbers of skilled international migrants as the tertiary sector develops. They are attracted to work for TNCs which have been drawn to the city by its recent investment in infrastructure (ports, airports and road systems) and established industrial zones.

Internal and international migration brings highly skilled workers to work in specialist areas of the economy.

**><**-

The city be alr of possible and graph of the countinution of the countinution of the country becomes increasingly urbanised.

Some cities are declining due to deindustrialisation or counter-urbanisation.

Low-skilled internal and international migrants are attracted by:

- opportunities for employment in the construction industry
- improvements in living conditions for the urban poor
- jobs in the service sector working in low-skilled jobs for TNCs

Low-skilled into the Irmgrants are att. 75 by agner wages and opportunity to work.

The city attracts increasing numbers of skilled international migrants as the tertiary sector develops. They are attracted to work for TNCs which have been drawn to the city by its recent investment in a structure (ports, airport ar. I read systems) and listed industrial zones.

Internal and international migration brings highly skilled workers to work in specialist areas of the economy.

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Zig Zag Education

### 'Call my bluff' cards - Sheet 1 (Plenary

Make one copy to card or paper – cut out, fold and give one to each student

| National migration is<br>the movement of people<br>within a country.   | National migratic in the movem of the free ple  | National migrat<br>the movement of p<br>between count<br>within a global a |
|--|---|--|
| True   | Bluff   | Bluff  |
| International migration<br>is the movement of<br>people across national<br>borders.<br>Fold                  | International migration Is the movement of foreign people.                                | International mig<br>is the movemen<br>people in to a cou                  |
| True   | Bluff   | Bluff  |
| Ruralist new ment of people from the countryside to towns and cities.  | Rural-urban migration is the movement of people from towns and cities to the countryside. | Rural-urban mig<br>is the movemen<br>people from rural<br>to villages.     |
| True   | Bluff   | Bluff  |
| <b>Deindustrialisation</b> is<br>the decline of<br>manufacturing industries<br>in an area or the<br>economy. | Deindustrialisation i<br>the urban decline (சீசரி<br>area கட்ட nacdral<br>assaster.       | Deindustrialisati<br>what happens w<br>people move out<br>city.            |
| True   | Bluff   | Bluff  |

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### 'Call my bluff' cards - Sheet 2 (Plenary

Make one copy to card or paper – cut out, fold and give one to each student

| Global shift describes the relocation of industries from developed to developing or emerging count         | Global shift describes the relocation of manufacturing individes from developed or emerging countries. | Global shift desc<br>the relocation of s<br>industries fro<br>emerging to deve<br>or developed cour |
|--|--|---|
| True   | Bluff  | Bluff   |
| Counter-urbanisation is<br>the movement of people<br>out of a city, usually for<br>better quality of life. | Counter-urbanisation is<br>when there are many<br>more people in the city<br>to count.                 | Counter-urbanisa<br>the change in t<br>number of peopl<br>city that are impo                        |
| True   | BlufCO   | Bluff   |
| Re-urleadation is the movement of people back into inner city areas.                                       | <b>Re-urbanisation</b> is the rebuilding of the city from the centre out.                              | <b>Re-urbanisation</b> improvement of down areas.   |
| True   | Bluff  | Bluff   |
| Multiplier effect describes the cycle of increasing urban growth as more people move to Fold the city.     | Multiplier effects describe ก่อง ต่อเล<br>ns a condicin the city<br>เมลา ever before.                  | Multiplier effe<br>describes how incr<br>numbers of people<br>resources scars                       |
|  |  |   |



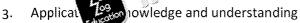


## Lesson 3: Answers

Abbreviation of Assessment Ohio (% is 10)

1. Knowledge

2. Unders



4. Skills

### 3.1 Starter

AO1 and 2

Key: Dd – developed country; E – emerging country; Dg – developing country

|   |                               | Imag <sup>-</sup> description  |
|---|-------------------------------|--|
| A | Rural road<br>networks        | Rural road, location unknown – road of en ate by wear and tear rather than cone nough money to do so. This man the prone to flooding during wet seasons and Makes access for large and the ficult.  In HICs, rure a cone of difficult to access as small amount of traffic makes consumer.   |
| В | Deseri 79<br>709<br>Education | esert overrunning farmland, Tinfu, Morocco – desertification occurs as a result of commanagement.  |
| С | Job opportunities             | Human resources graphic  |
| D | Higher education              | Students at University of Sussex, UK   |
| E | Urban healthcare              | Bumrumgrad Internation and Int |
| F | Malnutriii<br>interna 1990 d  | Food Aid shipment being loaded for distribution to areas of famine – malnural areas when crops fail. They are further from resources if there is a breakdown of food, e.g. during war.   |



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Image description Small flock of free-range chickens – subsistence farming is still the main occupation of many rules Subsistence G some areas of LICs and NEE. People live on what they can grow, keep small numbers of livestock farming milk and meat, and have little disposable income. Densely packed high-quality as he sag, location unknown – when people live together it may Good-quality Н and more efficient to who wently and water as they don't have to be distributed over large dis housing م S مناع bourg, France – public transport is more cost-effective in an urban area because it Public transport using it over a smaller distance. It also helps reduce congestion on the roads. systems Building with sign in Hindi script is Shalini Hospital in Hutup village, East India – lack of resour Rural healthcare such hospitals are not well resourced or staffed. Rice farmers planting rice crops - Asia, exact location unknown - in LICs, agriculture often still Farming working with hand tools. In rural areas in HICs machinery is available. The costs mean small-scall find it difficult to make a profit compared to large-scale. Friends walking in the sunshine – people will rarea or has migrated for exactly the reasons out Friends and family task. News of their success may engage to the migrate themselves. Rippingale village , a so UK – this school has since closed and been redeveloped into flat there were '. S. In condren in the village and surrounding area. Local children must now tra-М Rural education kos bili ap water hole, South Australia – lack of water makes it hard to grow crops or make a livi Drought and disasters around the world (e.g. earthquake, flood or hurricane) destroy homes and livelihoods Ν natural disaster mass migration. Broadway posters – because there are lots of people in urban areas, entertainment and leisure 0 Entertainment can make a profit. This includes restaurants, theatres and sports facilities.

### 3.2 Task

| Question   | AO       | Answer   |
|------------|----------|--|
| (a)        | AO1      | iii. A transformation in the way money is generated within a   |
| (b)        | AO1      | iv. In a city in a developed country where the economy has a sector.   |
| (c)(i)     | AO1      | Rural—urban migration is the action is to people from rural actions or cition is the action in the action in the action in the action is the action in the action in the action in the action in the action is the action in the a |
| (c)(ii)    | A02      | 1 mark fog ach ട്രോണ്ട് any two PULL factors from the table fro  |
| (c)(iii)   | 02       | as could include any PUSH factors from the table from the star   |
| (d)(i)     | AO1      | 1 mark for each part of the definition – brief summary/detail: A consequence of economic decline is that it creates more economic the city to find work or better quality of life elsewhere, they no resources which in turn leads to loss of more jobs so more peop   |
| (d)(ii)    | AO2      | Three reasons should be identified (1 mark each) and developed the information sheet:  A major employer in the city closes or makes redundancies (dembe because:  Its offices and factories are relocated to where labour is characteristic and services from the unit of the  |
| (d)(iii, T | 209 73 N | 1 mark for reasching is known for justification or an example Regener in concession opportunities for unskilled workers, examing and sare unskilled and so can find work where the same and involves building offices, suggesting tertiary. These may be specialist industries which require skilled worker countries may be attracted to these jobs.  Regeneration creates economic wealth, which supports a sociellife and high wages. International migrants are attracted to the   |

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### AO2 Credit 1 mark for each correct statement up to 8 marks.

| Economic influences on migration in developing countries   | Economic influences on migration in emerging countries   |
|--|--|
| Internal migrants are attracted by:  opportunities in informal economy. People can set up or work for 'unofficial' businesses and avoid paying tax.  jobs in construction cran' and investment in the infrast and industries, e.g.  iot information cran' and investment in the information cran' and information cran' and investment in the information cran' and investment | Low-skilled internal and international migrants are attracted by:  can les for employment improvements in living conditions for the urban poor jobs in the service sector working in low-skilled jobs for TNCs  The city attracts increasing number of skilled international migrants as the tertiary sector develops. They are attracted to work for TNCs which have been drawn to the city by its recent investment in infrastructure (ports, airports and road systems) and established industrial zones. |

AO2 Credit 1 mark for similarity, 1 mark for a and 1 mark for state.

Similarities: Both attract low-skilled late hat larger so both attract migran. have TNCs attracting migran's and the hor different types of work). Differences: The de 2 spin Country is not yet attracting large numbers of emerging co: 10 is the are interested in skilled workers in emerging cou pp ၊ ၂၂.atries.

### Extension

AO3 Award 1 mark for each of the following – marks should be awarded progressively an argument against the judgement is not introduced.

| Mark | Answer  |
|------|---|
| 1    | Summarises a judgement  |
| 2    | Gives an argument in support of the judgement                             |
| 3    | Gives an argument against the judgement                                   |
| 4    | Explains the supporting argument further                                  |
| 5    | Explains why the argument against the judgement is not as important as th |
| 6    | Gives facts to support the arguments for and against                      |
| 7    | Gives more than one argument in support of an st the judgement            |
| 8    | Outlines how the answer might be different situation or unde              |
|      |   |



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Examples of arguments that could be included, and further explanation:

| Arguments for   | A                        |
|---|--------------------------|
| Economic growth creates job opportunities which attract         | People migrate to citie  |
| people to live in the city – <i>they are looking for higher</i> | are a number of push a   |
| incomes to improve their quality of life.                       | migration. Students m    |
| Economic change offers a range of jobs for skilled and          | in the starter activity. |
| unskilled migrants. As the economy changes diffe                | Some people migrate t    |
| industries establish, e.g. manufacturing, tack log              | or there has been a na   |
| Opportunities become available for a Cijied                     | their homes. They are    |
| workers.  | will do any kind of wor  |
|   | mean doing work they     |
| 109.00  | Some people have a ch    |
| Editor  | sort of work they do. 🏗  |
|   | migrate to may be mor    |

### 3.3 Plenary

Answers for the keyword definitions are on the True cards.





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## **Lesson 4 Overview: Economies**



**Learning questions**: How are urban economies different from one an

New key terms: urban economy, informal employment, formal employment structures, working conditions

Associated Task Sheet: 4 – pages 55 - 75 Associated PowerPoint file scr. 4.pptx

4.A Pre

- ICT For part 4.4 of the lesson you will need Internet access to one of the for BBC News: http://www.bbc.co.uk/news/world-middle-east-162124
- Global Guide: https://www.youtube.com/watch?v=uuVRwDBiKws (
- New York Times: https://www.nytimes.com/video/world/middlee spring.html (2.49 mins)

Worksheets and resources for photocopying:

| For<br>event | Description                  | Page(s) | Photocopies 1     |
|--------------|------------------------------|---------|-------------------|
| 4.2          | Urban economies cards        | 72      | Number of studen  |
| 4.2          | The urban economy sort sheet | 73      | Number of student |
| 4.3          | Informal economy statement   | 74      | Number of studen  |

Other resources you may need to provide

## Use this

### 4.B Individual 3 1 3 2 planning

to tailor your lesson plan to individual students in your class.

|       | Student(s)      | Detail of acti |
|-------|-----------------|----------------|
| G&T   |                 |                |
| SEN   |                 |                |
| EAL   |                 |                |
| Other | 79<br>Edversion |                |

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<sup>✓</sup> Glue, stapler or hole punction is a worksheets

### 4.C Teaching and learning plan

| Suggested<br>time | Event                              | skinstructions   | Student<br>workshee   |
|-------------------|------------------------------------|--|---|
| 10 mins           | 7.9<br>Formation<br>4.1<br>Starter | Inctination in developed, emerging and developing countries.  Teaching strategy: develop student understanding by asking questions, e.g. what work goes on here? How do people make money? What might be happening in this city that can't be seen in the photograph? (Images are New York, USA – developed country; Bangkok, Thailand – emerging country; Dar es Salaam, Tanzania – developing country).  Learning outcome:  All: identify differences between the urban economies visible in the three images.  Most: can make reasoned suggestions as to which image shows which type of country.  Some: recognise that the photographs income vea all there is to see in those cities.   | None  |
| 20 mins           | 79<br>Log Education<br>4.2<br>Task | Instruction to student in the structure of the pain to pain to pain to pains, sort the statements about the structure of the pain to pain to pains, summarise your findings and emerging a level ping countries, summarise your findings and differences.  1 Thing strategy: develop student understanding and application by asking questions that relate to past learning about the stages of economic development, e.g. how are the economies of developed, emerging and developing countries different from one another? What sectors of the economy would you expect to find most developed in urban areas?  Learning outcome:  All: describe the urban economy of developed, emerging and developing countries.  Most: identify and explain the differences of the most developing countries within these grounds. | Urban<br>economies<br>cards<br>The urban<br>economy<br>sort sheet |





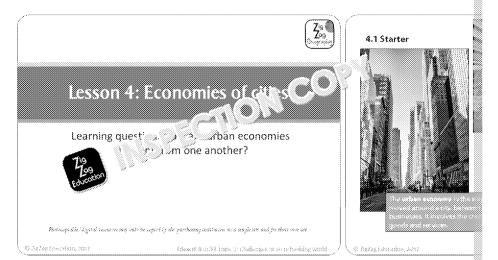
| Suggested<br>time | Event                               | Tas' v st. vo' ours   | Student<br>workshee                           |
|-------------------|-------------------------------------|---|---|
| 20 mins           | 7.9<br>Feducation<br>4.3<br>Task    | Instruction to studies: In a sindependently identify the correct words in the defining the informal economy and write a graph to define the formal economy. Justify your judgement economy is vital for the urban poor in developing and emerging countries.  Teaching strategy: develop student knowledge by supporting the identification of opposite conditions to the informal sector statement. Develop student application by helping students structure their justification of their decision.  Learning outcome:  All: know what the formal and informal economy are and their key characteristics.   | Statement<br>about the<br>informal<br>economy |
|                   |                                     | Most: understand how the two parts of the country are different and related.  Some: can give reasoned arc is to why the informal sector is or is not important for the countries.   |   |
| 10 mins           | 24.9<br>Education<br>4.4<br>Plenary | Instruction * A atch one of the videos then work as a class to discussion. (or both if time allows) the questions – can protesting ferent to whether governments of emerging and developing countries improve quality of life? How can governments protect people working in the informal economy without taking away this vital opportunity for them to make an income or damaging the formal economy?  Teaching strategy: develop student application by helping students identify relevant knowledge and understanding from the lesson in relation to the role of the informal economy in people's lives.  Learning outcome:  All: know that poor people need to find work and the informal economy arises out of government's lacks and the informal economy to the urban poor in emerging and day of untries.  Some: understanding the informal economy. | None  |



# $\overline{Z}$



### **PowerPoint Handouts**



4.2 Task (4)







| Secondary  | Incre     |
|------------|-----------|
| Testiary   | Large (bu |
| Quaternary | No        |
| Framal     | Sen.      |
| informal   | Lar       |
| ×          |           |

(c) Emerging countries generally have quaternary sector, while both sector

© NePagEdvortion, 2mg

### 4.3 Task

It is an unofilidal economy where people are usually paid in cash/films and at low rates, but it provides an opportunity/similarge for some people to earn an income who would otherwise struggle to get or hold down a somal job, e.g. if they have never been to minerarily/school or they have have children/people take care of. They work to themselves on the streets / mornito should be radiing goods, making food or offering services such as decigomy/mending things or in industries that rely on a large string funds filled workforce, e.g. constitution labouters, finit pickets, or catering. The majority of people working in the informal economy are women/ama and children. The informal economy is usually larger/smoller in developing countries than developed countries.

& Righted Educations, 2016.



an protesting make a difference to wingstove quality of life? Yes or no ~ will towican governments protect people? oportunity for them to make an inco ossible solutions – consider knock of

© Yarkas Coucation, 2003

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## Task Sheet 4: Economies of



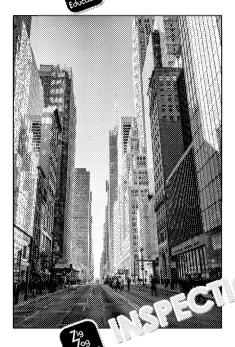
**Learning questions**: How are urban economies different from one an

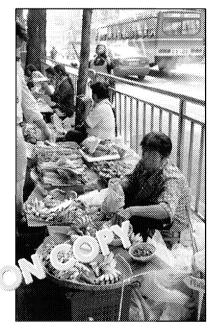
New key terms: urban economy, informal employment, formal employment structures, working conditions

### 4.1 Starter

Compare and contrast the representation by looking for signs of the urban economic part of ase the correct terminology in your answer, the contrast the correct terminology in your answer, the contrast the correct terminology in your answer.

The **ur** is move people creation





4.2 Task

The structure of a city's economy depends on how developed a country is.

- (a) Sort the statements (next page) into those relating to the urban economy developing countries. Some statements may be relevant to more than on summary in any other box it should be in), some may not be relevant to a
- (b) Summarise what you know about the urban economies in developing, eratable, as below. Use the terms 'small', 'large' or 'increasing' to indicate comportance.

| Urban economy | Developing | Emerging |
|---------------|------------|----------|
| Secondary     |            |          |
| Tertiary      |            |          |
| Quaternary    |            |          |
| Formal        |            |          |
| Inf 79        |            |          |

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### (c) Describe the difference between the urban economies of developing course

| There is a small informal economy, mostly in construction and catering, where migrants can find temporary work.  | The majority c   |
|--|--|
| Employment law sets out minimum work conditions, pay and holidays. The country is rich enough to be able to prosecute businesses that do not follow law.   | Industry is well es<br>tax breaks, chea<br>working condition                     |
| Although there is a large of the city (including a large of the sector), a significant produce work in the informal economy my living from making, selling or mending things residents.  | The city's formal sector jobs, e.g doctors, and gove companies. Over sector, mc  |
| The large informal economy includes independent<br>entrepreneurs with small shops, health and beauty<br>services, street vendors selling food, etc. It would take<br>a lot of government resources to keep track of all<br>activities. | A large proportion and unskilled. The areas. They make can to earn enou          |
| The majority of people work in the tertiary and quaternary industries. There is only a small amount of manufacturing in the cities, most of which has closed down or moved to where there is a cheaper workforce.                      | Almost all worker<br>is some variation b<br>(lower in region<br>compared to thos |
| The tertiary sector is growing fast as financial,<br>technology and service industries are attracted by the<br>growing skilled workforce. There may also be a small<br>and growing specialist quaternary segan                         | The cities have<br>manufacturing<br>beginning to indu<br>the worke               |
|  |  |

## Developed countries

# Developing countries The urban economy

Further differences occur in the urban economy when different developing countries or developed countries become specialists, e.g. by exploiting part on new technologies due to their political significance, history or location. disadvantages of an urban economy becoming specialised and evaluate was a city.

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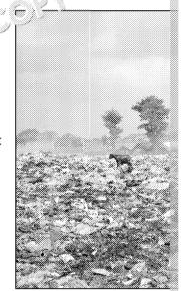


### 4.3 Task

The urban economy can be understood in three parts:

- The formal economy legal work that the government knows is happen
- 2. **The informal economy** – legal work that a government doesn't know ab
- 3. The criminal economy – money that is generated as a result of criminal a extortion or smuggling

In emerging and developing countries the informal economy accounts for over 'a. . . urban jobs (over 80% in som வில்), பிற்றாed to developed countrication have fewer legitima' الود . جي 'there are fewer formalalable to people in the city. sector jo Working 'informally' provides a vital income – without it many unskilled poor people would not be able to survive. The informal economy exists because governments in developing and emerging countries don't have the resources to oversee everything that is happening. This is made worse where cities are growing rapidly. But if a government doesn't collect money through work-related taxes it has less money to spend on improving quality of life in the city.



Waste picking in Jakarta, Indon informal sector worker. He look to a recycling company in the f

The formal and informal sectors are closely linked. Goods needed by the informal sector can come from the formal economy and the products of it often where (sometimes) street vendors get their supplies from shops and make while waste pickers se

recycling companies. Some transport for a purpanies have been criticised for exp and emerging countries. Proceedings will work in unsafe and uncomfortable com have no alternative in must make a living or starve. However, some people set up facility in paveloping and emerging countries then those workers would

(a) Read and complete the statement about the informal economy – you ne each of the 15 pairs marked in italic:

The informal economy refers to people *living/working* without legal re or employment *rights/responsibilities* that would set standards for pay or work conditions (e.g. how many **months/hours** a week they should w entitled to). The government has no *interest in / record of* how much t taxes/bills.

It is an 'unofficial' economy where people are usually paid in **cash/kind opportunity/challenge** for some people to earn an income who would down a formal job, e.g. if they have never been t **rties/school** or the of. They work for themselves **on the stre as in a fice blocks** – trading services such as *designing/men a.* \tag{ings/or in industries that rely on e.g. construction laboಗ್ ತಾಗ್ ಎ ್ಲಿಪಿರ್ಟ್ or catering. The majority of pe economy are **സായുപ്പെട്ടും a**nd children. The informal economy is usual gi، جريستrries than developed countries.

- (b) Write a similar description of the formal economy. Refer to what it is, w different in developing, emerging and developed countries.
- (c) The informal economy is vital for the urban poor in developing and emer you agree with this statement? Justify your answer.



### 4.4 Plenary

In 2011, people across the Arab nations of the Middle East rose up against the rebellions and protests. They were calling for democracy, socio-economic charquality of life. Today we refer to it as the Arab Spring, but it all began because fruit on the streets of Tunisia, and he set himself on fire in protest. Watch on discuss as a class:

Debate Can protesting make a diff one whether the governments countries improved a difference. Yes or no – why?

How the vernments protect people working in the informal to possible solutions – consider knock-on effects

### Videos:

- BBC News: http://www.bbc.co.uk/news/world-middle-east-16212447 (
- Global Guide: https://www.youtube.com/watch?v=uuVRwDBiKws (2.2
- New York Times: https://www.nytimes.com/video/world/middleeast/spring.html (2.49 mins)

Rather than type out the





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### **Urban economies cards (Task 4.2)**

Make one copy per student/2 - Cut & handout one each

There is a small informal economy, mostly in construction and catering, where migrants can find temporary work.

The majority of peop

and holidays. The country is rich enough. e and to prosecute businesses that are now with the law.

Industry is well estable breaks, cheap land are conditions are not re-

Although there is the formal economy in the city (i) the gaster certiary sector), a significant property for people work in the informal economy making anving from making, selling or mending things for the growing number of skilled middle-class residents.

The city's formal econic jobs, e.g. public sect government officials 80% of people work

The large informal economy includes independent entrepreneurs with small shops, health and beauty services, street vendors selling food, etc. It would take a lot of government resources to keep track of all activities.

A large proportion of unskilled. They've on They make ends meet enough money to

The majority of people work in the tertiary and quaternary industries. There is only a small amount of manufacturing in the cities, most of which has closed down or moved to where there is a cheaper workforce.

Almost all workers a some variation between in regional urban are those in eme

The tertiary sector is growing fast as financial, technology and service industries are attracted by the growing skilled workforce. There may also be a small and growing specialist quaternary sectors.

The cities have a reanufacturing (second to industrialise. TNCs

**><** 

X

Const Education

s.Mall informal economy, mostly in and catering, where migrants can find temporary work.

The majority of peop

Employment law sets out minimum work conditions, pay and holidays. The country is rich enough to be able to prosecute businesses that do not follow the law.

breaks, cheap land a conditions are not re

Although there is a large formal economy in the city (including a large tertiary sector), a significant proportion of people work in the informal economy making a living from making, selling or mending things for the growing number of skilled middle-class residents.

The city's formal econology jobs, e.g. public sees government officials, 80% of people work

The large informal economy includes independent entrepreneurs with small shops, health and beauty services, street vendors selling food, etc. It would tallot of government resources to keep track coallocativities.

A large proportion of unskilled. They've co rney make ends meet enough money to

The majority of persistent in the tertiary and quaternary individuals only a small amount of manuals and the cities, most of which has closed down and to where there is a cheaper workforce.

Almost all workers a some variation between in regional urban are those in eme

The tertiary sector is growing fast as financial, technology and service industries are attracted by the growing skilled workforce. There may also be a small and growing specialist quaternary sector.

The cities have a manufacturing (second to industrialise. TNCs wo

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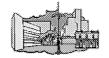
### √7 e √ jan economy sort sheet (Task

Make one copy per student - give one to each

### **Developed countries**

### Tountries Tountries

### The urban economy





### Informal economy statement (Task 4)

Make as many copies as students/3 – cut out and give one copy of statement to each

The informal economy refers to people *living/working* without legal contracts or employment *rights/responsibilities* that would set stand *maximum/minimum* wages) or work conditions be how many *mon* work or how much holiday they are entitled to the government has much they are earning so the conditions and they are earning so the conditions and they are earning so the conditions and they are earning so the conditions are sometimes.

It is an 'unofficial' where people are usually paid in **cash/kin** provide **p**, **canity/challenge** for some people to earn an incomposition of the street of

**X** 

The informal economy refers to people *living/working* without legal contracts or employment *rights/responsibilities* that would set stand *maximum/minimum* wages) or work conditions (e.g. how many *mon*) work or how much holiday they are entitled to). To government has much they are earning so they pay no *tax* (a)

It is an 'unofficial' economy '' - ' p pie are usually paid in **cash/kin** provides an **opport**'' - ' ienge for some people to earn an incomposition of the street of the s

**><** 

The informal economy refers to people *living/working* without legal contracts or employment *rights/responsibilities* that would set stand *maximum/minimum* wages) or work conditions (e.g. how many *mon* work or how much holiday they are entitled to). To government has much they are earning so they pay no *tax* (a)

It is an 'unofficial' economy when provides an **opporture** are usually paid in **cash/kin** provides and usually paid

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### **Lesson 4: Answers**

### Abbreviation of Assessment Objectives (AO):

- Knowledge
- 2. Understanding
- 3. Application of knowledge and understanding
- Skills

### 4.1 Starter

AO3 this is a free-thing of each the teach the teach the tradents to student comments and suggestions.

### 4.2 Task

(a) AO2

### **Developed countries:**

- There is a small informal economy, mostly in construction and catering, where
- Employment law sets out minimum work conditions, pay and holidays. The prosecute businesses that do not follow the law.
- Almost all workers are protected by legislation. There is some variation be (lower in regional urban areas), but rates are high compared to those in en
- The majority of people work in the tertiary and quaternary industries. The manufacturing in the cities, most of which has closed down or moved to w

### **Emerging countries:**

- Industry is well established, attracted by government tax breaks, cheap lard conditions are not regulated as in developed countries.
- Although there is a large formal economy in the people work in the informal economy making a large tertial people work in the informal economy making a large tertial people work in the informal economy making a large tertial people work in the informal economy making a large tertial people work in the informal economy making a large tertial people work in the informal economy in the info
- number of skilled middle-class records.

  The large informal econds in the sindependent entrepreneurs with small street vendors 5 1, 2, 2, 4, etc. It would take a lot of government resources.
- The term is growing fast as financial, technology and service industry was torce. There may also be a small and growing specialist quater

### Developing countries:

- The city's formal economy consists mostly of tertiary sector jobs, e.g. public government officials), banks or national companies. Over 80% of people we low-paid service jobs.
- A large proportion of the city's population are poor and unskilled. They've
   They make ends meet by doing whatever they can to earn enough money
- The large informal economy includes independent entrepreneurs with small street vendors selling food, etc. It would take a lot of government resources
- The cities have a small but increasing amount of manufacturing (secondary industrialise. TNCs are attracted because the workers will work for lower value

### Throw away:

The majority of people still live in rural areas as subsistence farmers – this

### (b) AO2

| Urban economy        | L - oping             | Emerging                                   |
|----------------------|-----------------------|--|
| Secondary            | 1r _easing            | Large                                      |
| Ter. 29<br>Ledvedton | Large (but unskilled) | Large (skilled and unski<br>and increasing |
| Quaternary           | None                  | Small                                      |
| Formal               | Small                 | Increasing                                 |
| Informal             | Large                 | Large                                      |

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(c) AO2 Emerging countries generally have larger secondary and tertiary sectors a both sectors are increasing in developing countries.

### Extension 4.2.1

AO<sub>3</sub>

Students could refer to the knowledge economies outlined in lesson 3 or identify their own necessary but students might be aware of Silicon Valley, San Francisco, USA; Oil exploration

Students should refer to their learning about economic degree from lesson 3.

This question can be marked as an 8-5-3-4 (e.g., Lion-style question as follows:

| Mark | Answer  |
|------|---|
| 1    | 79 arı 😜 Gudgement  |
| 2    | n argument in support of the judgement                                      |
| 3    | Gives an argument against the judgement                                     |
| 4    | Explains the supporting argument further                                    |
| 5    | Explains why the argument against the judgement is not as important as th   |
| 6    | Gives facts to support the arguments for and against                        |
| 7    | Gives more than one argument in support of and against the judgement        |
| 8    | Outlines how the answer might be different in a different situation or unde |

Examples of arguments that could be included, and further explanation:

| Arguments for – it is a 'good thing', i.e. advantages  | Arguments aga  |
|--|--|
| Attracts international and national migrants with specialist skills. These people are highly paid — they bring reventages and provide jobs for unskilled workers  Reputation of the country impression of the country impression of the attract more investment. | a economy is suscept a esource fall or a new industries may close do service industries that repeople living in the city don't have the specialist Environmental damage one particular industry cause noise pollution, as waterways. |

### 4.3 Task

(a) AO1

Correct words: working, rights, minimum, hours, record of, taxes, cash, opportuned mending, unskilled, women, larger.

- (b) AO2
  - What it is legally recognised work that the government keeps track of an in terms of controls on working conditions and hours of work. In some comminimum wage, living wage in UK. Also protects and its discrimination in the controls.
  - Who works in it skilled and unskilled works s, alternale and female? Crestrictions on age at which they can be employed.
  - How and why it is difference evaluating, emerging and developed countries and legislation. He was a to track, chase and prosecute those not follows:



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### (c) AO3

| Mark | Answer  |
|------|---|
| 1    | Summarises a judgement  |
| 2    | Gives an argument in support of the judgement                         |
| 3    | Gives an argument against the judgement                               |
| 4    | Explains the supporting argument further                              |
| 5    | Explains why the argument again. ti significant is not as important a |
| 6    | Gives facts to support ( gr) 21its for and against                    |
| 7    | Gives mor to an against the judgement                                 |
| 8    | utl. A che answer might be different in a different situation or u    |

Exan the arguments that could be included, and further explanation:

| Arguments for – it is vital for the urban poor                                     | Arguments agai       |
|--|----------------------|
| It provides unskilled jobs that are not available                                  | It exploits people w |
| elsewhere, if these jobs were not available then people                            | them badly and mo    |
| would struggle to make money.  | People would find    |
| There are a range of different types of work, there is a                           | economy if that wa   |
| certain amount of choice as to what they can do                                    |                      |
| depending on confidence, entrepreneurial knowledge,                                |                      |
| health and age of a person.  |                      |
| It allows people to work the hours they can or take their                          |                      |
| children with them, if jobs had more rules and regulations                         |                      |
| this would not be possible so women with young children would not be able to work. |                      |
|  |                      |
| It enables people who have no qualifications so for firm                           |                      |
| themselves, they can learn from economic and                                       |                      |
| cooperate.   |                      |

### 4.4 Plen This is a the second discussion/debate – there are no right or wrong answers. Student

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### Lesson 5 Overview: Changing popul



**Learning questions**: How do urban populations change and what is the

New key terms: agglomeration, urban conurbation, metropolitan area, spatiendustrialisation, counter-urbanisation, regeneration, gentrification, re-

Associated Task Sheet: 5 – pages % - 8t Associated PowerPoint file & Scr. Lapptx

5.A Pre To io

ICT - For part 5.4 of the lesson you will need Internet access to:

London Datastore: https://data.london.gov.uk/census/ (4.10 mins)

Worksheets and resources for photocopying:

| For<br>event | Description                          | Page(s)       | Photocopies 1                   |
|--------------|--------------------------------------|---------------|---------------------------------|
| 5.1          | The facts about London in 2011       | 87            | Number of studen                |
| 5.2          | Changing cities                      | 88            | Number of studen                |
| 5.3          | How cities grow – fact sheets 1 to 9 | 89 – 97       | Copy each sheet o               |
| 5.3          | Model of a city                      | 98            | Copy to A3. Num<br>students/2 = |
| 5.4          | Mini booklet template                | /<br>/9 – 100 | Copy duplex. Nur<br>students =  |

Other resources volume is in the said provide:

- ✓ Glu 19 le 15 .ore punch to attach worksheets
- ✓ Glucenplete task 5.3
- ✓ Scissors and stapler to create mini booklet

### 5.B Individual student planning

Use this section to tailor your lesson plan to individual students in your class.

|       | Student(s) | Detail of acti |
|-------|------------|----------------|
| G&T   |            |                |
| SEN   |            |                |
| EAL   | 700 Marian |                |
| Other |            |                |

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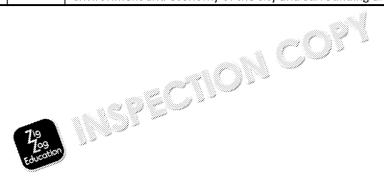


### 5.C Teaching and learning plan

| Suggested | Event                           | (1.), tructions  | Student   |
|-----------|---------------------------------|--|---|
| time      |                                 |  | workshee  |
| 10 mins   | 719<br>Education<br>Starter     | Instructic working independently, watch the animation and working independently, watch the animation and working independently, watch the animation and do any calculations that are required using the data in the animation.  Teaching strategy: develop student knowledge and skills by helping them identify key facts and work out what to do with data in order to extrapolate the answers needed for the true or false fact sheet.  Learning outcome:  All: know the correct key facts about London in 2011.  Most: know how to manipulate the statistics to draw conclusions.  | The facts<br>about<br>London in<br>2011   |
| 15 mins   | 5.2<br>Tark<br>7.9<br>Education | Instruction to students: working independently, answer the questions about how London's population number and distribution have changed over time.  Teaching strategy: develop student knowledge in inderstanding by drawing attention to visible difference in the population over time in the population numbers on the line graph be asking the population numbers on the line graph be asking the population numbers on the line graph be asking the population are and how London has changed since 1821.  Most: understand the meaning of the processes of urbanisation, suburbanisation, deindustrialisation, agglomeration, regeneration and international migration.  Some: Accurately predict what happens to population growth in different parts of a city during these processes. | Changing<br>cities<br>worksheet   |
| 15 mins   | 5-3<br>Task<br>7-3<br>Education | Instruction to students: working in pairs, gather facts about the processes at work in the city as it grows. Use then annotate your model so that you can see where and where a process takes place and track the spatial growth of the cit.  Teaching strategy: develoged understanding by asking questions to help students ide with the processes are occurring.  Learning  Learning  Wane city is changing – that it grows, parts become derelict their regenerate while it continues to grow outwards.  Most: understand where and when the processes are taking place and can describe the cycle of urbanisation.  Some: start to consider the implications of urban sprawl.   | Model of a city (A3)  You will need to distribute the 'How cities grow fact sheets around the classroom |



| Suggested<br>time | Event                      | Ta · ( sti ct ) iii   | Student<br>workshee    |
|-------------------|----------------------------|---|------------------------|
| 20 mins           | 79<br>Education<br>Plenary | Instruction to stipulate in a sign dependently, create a mini booklet for KS3 child and the cycle of urbanisation. The class will look at the cycle of urbanisation. The class will look at the cycle of urbanisation. The class will look at the cycle of urbanisation in the cycle of urbanisation by referring students to their answers in task 5.2 and model from task 5.3.  Learning outcome:  All: describe the stages of the cycle of urbanisation in terms of what happens and how it changes the city.  Most: explain the reasons why each stage occurs.  Some: suggest the implications of spatial growth on the people, environment and economy of the city and surrounding area. | Mini bookl<br>template |





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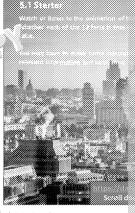
### **PowerPoint Handouts**



### Lesson 5: Changing populations cities

Learning questions change? 191 3 5 mpact on spatial growth?

Participable digital security pay entribe capacity the purchasing materials on a single site and for their own use

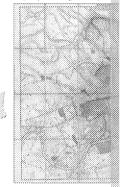


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### The facts about Lendon in 2013 The possibletion of Greeter London grow by poe profitor in the possible between their and 2000. The broaded in population was greatest in the cases pares of the population was greatest in the cases pares of the population was Correct answer Microsoft from 2.12 million is 30 2.12 million in 2011 none million reaces is greatesseed and control asso 2000, Control & Miller Hones, Course is it is 5.00 million born in the U.C. Asses million. per i areage que aye. Minima Petrino 1998. Riberio Scotter e il e 199 e 199 open to menter appearate medicing specific of the America and Ab Able and and victori of free cerebra. Good adults in Able of the area of Lef-Bosso as parchitisms medicinated. The medicinated in the area of Lef-Bosso as participations are seen as a second of the Commission of the C



Within the boundaries of Greater London last 200 years, increasing from t.as mill



to 8.66 million in 2015. During the last too years people have moved out of the city to like in surrounding towns such as Wattord (to the north), Maidenhead (to the west), Croydon (to the south), and Dartford and Ilford (to the east).



After WWII, the government relocated improve their living conditions while the



As urban areas have grown they have

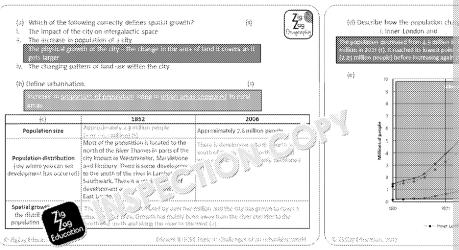
Bay the wider grben conurbation surone large metropolitan area, it can bi

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Z<sup>19</sup> 5.3 Task (f) Explain why the total population of London decreased between 1940 and 1991 Urban growth can lead to different while the population of Outer London remained relatively constant. processes of change in a city and the surrounding towns, villages and countryside. Working in pairs, decide Explain melans who will be heads and who will be tails,

Toss a coin—the winner must

The about the give reasons - 4 . marks suggests tear one fact about the processes at work in Bristol's growth from one of the fact zou should have eith explanation. .ike the . . . sheets around the room and bring it back to the table. Together, read the fact and decide how to label your **Model** of a City.

Yoss the coin again to see who will collect the next fact.
Continue until you have found all to facts and finished labelling your model. al Righted Education, 2017 ió regreg Edoxaden, am

### Total Section of the contract of the contract

### 5.4 Plenary

Use the template to make a minichange over time. Make it easy f

- . describing the changes in chr
- using drawings to show what
   explaining what key words makes
- . explaining what key words m understand (e.g., regeneratio

Elgáng Eberhádok, 2017



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### Task Sheet 5: Changing population



**Learning questions**: How do urban populations change and what is the

New key terms: agglomeration, urban conurbation, metropolitan area, spadeindustrialisation, counter-urbanisation, regeneration, gentrification, re-

### 5.1 Starter

Watch or listen to the arism of the 2011 census results for Greater London facts is true or fals. It is the correct answer where the fact is false. You may shout 'S light at your teacher if you hear relevant information but need time

Longon Datastore: https://data.london.gov.uk/census/ (4.10 mins)

Rather than type out this

|    | The facts about London in 2011  | True | False | Γ* |
|----|---|------|-------|----|
| 1  | The population of Greater London grew by one million in the decade between 2001 and 2011.     |      |       |    |
| 2  | The increase in population was greatest in the outer parts of the south and east of the city. |      |       |    |
| 3  | More people living in London were born outside the UK than within it.                         |      |       |    |
| 4  | 76% of people migrating to the capital came from Europe.                                      |      |       |    |
| 5  | Around 262,000 people in Longing Preitorn in India  — the top non-British grant y wirth.      |      |       |    |
| 6  | There are mc 3 d. people from ethnic minorities   |      |       |    |
| 7  | Tiggish is Portuguese.  |      |       |    |
| 8  | Half of Londoners rent their homes.   |      |       |    |
| 9  | There is more overcrowding north of the river and to the east and west of the centre.         |      |       |    |
| 10 | Most adults in the city are in full-time or part-time employment.                             |      |       |    |
| 11 | There are more people employed in the finance sector than in health or education.             |      |       |    |
| 12 | 82% of adults in London have some form of qualification.                                      |      |       |    |

### 5.2 Task

Within the boundarie London the population has changed dramatincreasing in 15. London in 1821 to 8.66 million in 2015. During the last 100 the city in surrounding towns such as Watford (to the north), Maidenh south), an Loartford and Ilford (to the east). After WWII the government releasedents to these towns and cities to improve their living conditions. As urban agglomerated. Today the wider urban conurbation surrounding the capital hamillion people. As one large metropolitan area, London can be considered a million people.

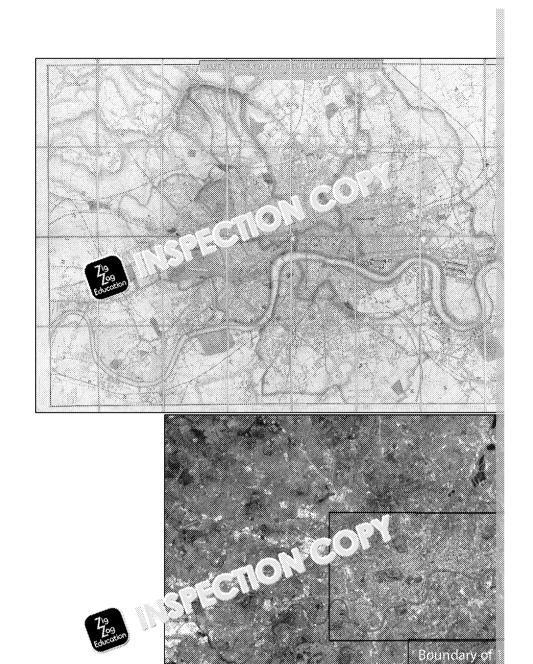
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GCSE Edexcel B Teaching Pack - Challenges of an Urbanising World

···•··· Inner London

1871

1921

Year

-- Outer London

10 9 8

7

6

5 4

1821

Millions of people

Page 84 of 231

- London

1971

Study Figures 5.1, 5.2 and 5.3, showing the distribution of population in London in 1852 and 2006 and the change in urban population 1821–2021 and answer the following questions:

- (a) Which of the following correctly defines spatial growth? (1)
  - i. The impact of the city on intergalactic space
  - ii. The increase in population of a city
  - iii. The physical growth of the city the charge of the area of land it covers as it gets larger
  - iv. The changing pattern is a superwithin the city
- (b) Define urbanice . \*

(1)

(c) Con the information in the table.

(5)

|  | 1852   |       |
|--|--|-------|
| Population size  |  | Appro |
| Population<br>distribution<br>(say where you can see<br>development has<br>occurred) | Most of the population is located to the north of the River Thames in parts of the city known as Westminster, Marylebone and Finsbury. There is some development to the south of the river in Lambeth and Southwark. There is a small amount of development around the docklands in East London. |       |
| Spatial growth (say how the distribution of the population has changed)              |  |       |

- (d) Describe how the population changed between 1821 and 2021 in:
  - i. inner London; and
  - ii. outer London
- (e) The distribution of people and spatial growth of the city has changed over annotations, select the correct time period on the graph during which the

| <b>Urbanisation</b> – the population of the city increased as people moved from rural areas during industrialisation.  | Suburbanisation – the population in the inner city started to decrease while the population in the outer city continued to increase as people moved to live in more pleasant suburb an areas. |
|--|---|
| Agglomeration of the wider urban conurbation – after WWII the city was badly damaged. Poole were moved to live in particles are a areas grew and operfer to make a large connected urban area. | ration – derelict areas of the zity were rebuilt as specialist centres for finance and media industries, e.g. the City of London and London Docklands.  |

(f) Explain why the total population of London decreased between 1940 and London remained relatively constant.

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### Extension 5.2.1

Assess the extent to which the increase in population of London from 1991 had a positive impact on the population of London and the wider metropolic

### 5.3 Task

Cities change over time. Population distribution standard the city grows outwards while parts of it may become derelict. The change in the area for id which a city covers is called spatial growth.

Working rs, Arcae who will be heads and who will be tails.

- Toss a coin the winner must find one fact about how 1. the city changes from the fact sheets around the room and bring it back to the table.
- Together read the fact and decide what it tells you and 2. where you should place it on the model of change in distribution of the urban population and spatial growth over time – attach it to the model.
- Toss the coin again to see who will collect the next fact. 3.
- 4. Continue until you have found all nine facts and you have finished labelling your model. (9)

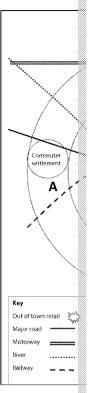


Figure 5.4: urban pop

### Extension 5.3.1 -----

Identify the reason 4 /1 /2 spatial growth of the city. Develop your answer



The city authorities have designated a new high-tech industrial park at site economic investment in new roads and a new railway station and incentive offices and manufacturing facilities. Land around the site will be removed to get planning permission to build new houses or other development. As growth resulting from this designation might impact on the city in future consequences of any changes to how land in the city would be used.

### 5.4 Plenary

Use the template to create a mini booklet – follow the instructions in bold to information and images to teach Year 7 children at voy a hool about how cit. for them to understand by:

- describing the changes in chrone of or or or 1.
- 2. using drawings to show visual shapening;
- explaining what I and the fear in language the younger children will un 3.



Suggest the impact of each stage on the economy, people and environment area.

Share your booklets between your classmates and, as a class, identify the t a booklet you must say why it fulfils the brief you were given. Take a class



### The facts about London in 2011 (Starte

Make as many copies as students/2 – cut out and give one set to each student

|    | The facts about London in 2011  | True | False |  |
|----|---|------|-------|--|
| 1  | The population of Greater London grew by one million in the decade between 2001 and 2011.   |      |       |  |
| 2  | The increase in population was greatest in to 3 arcs of the south and east of the city.     |      |       |  |
| 3  | More people living in Lor an valor outside the UK than within it.                           |      |       |  |
| 4  | 7 pec 3 sorating to the capital came from Europe.   |      |       |  |
| 5  | A. 62,000 people in London were born in India — the rop non-British country of birth.       |      |       |  |
| 6  | There are more British people from ethnic minorities living in the city than white British. |      |       |  |
| 7  | The most popular language spoken in London after English is Portuguese.                     |      |       |  |
| 8  | Half of Londoners rent their homes.   |      |       |  |
| 9  | There is more overcrowding north of the river and to the east and west of the centre.       |      |       |  |
| 10 | Most adults in the city are in full-time or part-time employment.                           |      |       |  |
| 11 | There are more people employed in the finance sector than in health or education.           |      |       |  |
| 12 | 82% of adults in London have some form of qualific 3.                                       |      |       |  |

| Q | _ |
|---|---|
|   |   |
| ~ | • |
|   | • |

|    | racts about London in 2011   | True | False | Γ* |
|----|--|------|-------|----|
| 1  | Tight ation of Greater London grew by one million in the decade between 2001 and 2011.   |      |       |    |
| 2  | The increase in population was greatest in the outer parts of the south and east of the city.  |      |       |    |
| 3  | More people living in London were born outside the UK than within it.  |      |       |    |
| 4  | 76% of people migrating to the capital came from Europe.   |      |       |    |
| 5  | Around 262,000 people in London were born in India – the top non-British country of birth.   |      |       |    |
| 6  | There are more British people from ethnic minorities living in the city than white British.  |      |       |    |
| 7  | The most popular language spoken in London after Fncl h is Portuguese.   |      |       |    |
| 8  | Half of Londoners rent their homes   |      |       |    |
| 9  | There is more overcrowd and it is a triver and to the east and west of the many and the second secon |      |       |    |
| 10 | Manual Conty are in full-time or part-time e legion ent.   |      |       |    |
| 11 | There are more people employed in the finance sector than in health or education.  |      |       |    |
| 12 | 82% of adults in London have some form of qualification.   |      |       |    |

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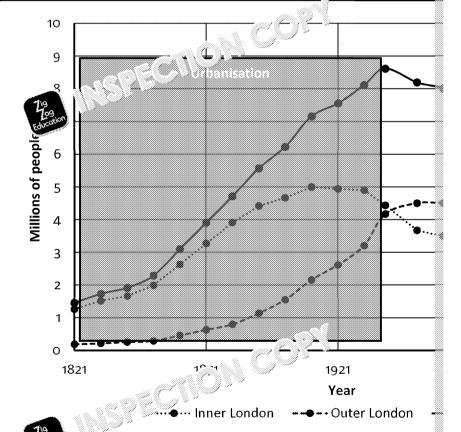
### **Changing cities (Task 5.2)**

Make as many copies as students – give one to each student

|  | 1852  |      |
|--|---|------|
| Population size  |   | Appr |
| Population distribution<br>(say where you can see<br>development has occurred) | Most of the population focated to the north of the Sive Trames in parts of the formal ways. There is some development to the south of the river in Lambeth and Southwark. There is a small amount of development around the docklands in East London. |      |
| <b>Spatial growth</b> (say how the distribution of the population has changed) |   |      |

**Urbanisation** – the population of the city increased as people moved from rural areas during industrialisation.

**Suburbanisation** – the population in the inner city started to decrease while the population in the outer city continued to increase as people moved to live in more pleasant suburban areas.



Agglome of the wider urban conurbation –

After WWII the city was badly damaged. People were moved to live in new housing in towns and cities around the capital. These urban areas grew and joined together to make a large interconnected urban area.

Regeneration – derelict are of the city were rebuilt as specialist centres for finance and media industries, e.g. the City of London and London Docklands.

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### วัง 🔍 ties grow – fact sheet 1 (Task

|                   |  |   |   | ∑ov_   | ties gro   | w – fact s  | heet 1 (Ta   | ısk |
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| g as new          | Re-urbanisation is occurring some luxury apartments and studence accommodation are attract sheople to live in the city centre.  Re-urbanisation is occurring some luxury apartments and studer some luxury apartments and studer some live in the city centre. | Re-urbanisation is od with ng as new luxury apartments and level accommodation are attack in the city centre when | Re-urbanisation is surring as new luxury apartments and tudent accommodation ar so tracting people to live in the city ce sets. | Re-urbanisat. Soccurring as new luxury apartme. And student accommodatic and attracting people to live in the cit. Cr. Itre. | Re-urbanisation is occurring as new luxury apartments and student accommod Jon are attracting people to live in the Lity centre. | Re-urbanisation is occurring as new luxury apartments and student accommodation are attracting people to live in the city centre. | <b>Re-urbanisation</b> is occurring as new luxury apartments and student accommodation are attracting people to live in the city centre. |     |

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| <u>Gentrification</u> occurs where wealthier families buy homes in cheap areas to renovate and improve. This makes house prices rise and become unaffordable to local people. | Gentrification occurs where we ਸ਼ੁਰੂ families buy homes in cheap are renovate and improve. This mak ਵਿੱਚ ਤੋਂ prices rise and become unafft ਵਿੱਚ ਤੋਂ to local people. | <b>Gentrification</b> occurs where thier families buy homes in cheap to renovate and improve. This makes house prices rise and become unadable to local people. | <b>Gentrification</b> occurs where wealthier families buy homes in characters to renovate and improve. The takes house prices rise and become attributes to local people. | <b>Gentrification</b> occurs there wealthier families buy homes in the preas to renovate and improve the makes house prices rise and beconstantial formable to local people. | <b>Gentrification</b> or all where wealthier families buy hom as a cheap areas to renovate and improved. This makes house prices rise and the me unaffordable to local people. | <b>Gentrification</b> occurs where wealthier families buy homes in cheap areas to renovate and improve. This makes house prices rise and become unaffordable to local people | <b>Gentrification</b> occurs where wealthier families buy homes in cheap areas to renovate and improve. This makes house prices rise and become unaffordable to local people. | <b>Gentrification</b> occurs where wealthier families buy homes in cheap areas to renovate and improve. This makes house prices rise and become unaffordable to local people. |



### ຸລັງຈັນ 🔏 ties grow – fact sheet 3 (Task

Make one copy – cut along dotted lines and pin in form e classroom

New information and commu the countryside but still work people is called **counter-urba**  people is called **counter-urb** 

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the countryside but still work for companies in the city.

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New information and communication technologies enable people to move

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### ον «ties grow – fact sheet 4 (Task

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| <b>Regeneration</b> is occurring in parts of the city centre. Brownfield sites in industrial areas are transformed. Some old buildings are <b>renewed</b> (modernised) while other are demolished and their sites <b>redeveloped</b> . | Regeneration is occurring in parts ty centre. Brownfield sites in industrates are transformed. Some old by (2) to renewed (modernised) while of are demolished and their sites redev (2). | areas are transformed. Some old hings are <u>renewed</u> (modernised) while here are demolished and their sites <u>redescriped</u> . |

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routes and where there were railway stations.

developments were built on **greenfield** sites around the inner city along principal road Suburbanisation occurred as transport links to the city centre improved. New housing

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routes and where there were railway stations. developments were built on **greenfield** sites around the inner city along principal road <u>Suburbanisation</u> occurred as transport links to the city centre improved. New housing

developments were built on greenfield sites around the inner city along principal road <u>Suburbanisation</u> occurred as transport links to the city centre improved. New housing routes and where there were railway stations. developments were built on **greenfield** sites around the inner city along principal road Suburbanisation occurred as transport links to the city centre improved. New housing

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inere were railway stations.

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|   |  |   |  |  | _ <u></u>  | ties gro  | w – fact sl   | neet 6 (Ta  | sk |
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| New <b>commuter settlements</b> developed on the outskirts of the city. Some were once small villages, but in some places entire new towns have been built. Commuters can get into the city by railway or motorway. | New <b>commuter settlements</b> develoned by the outskirts of the city. Some wern small villages, but in some places ent क्षेत्र by bowns have been built. Commuter क्षेत्र हैं। अर्थे के bowns the city by railway or motorway. | New <b>commuter settlements</b> devented on the outskirts of the city. Some vene places small villages, but in some places see a new towns have been built. Commuted an get into the city by railway or motorway. | New <b>commuter settlements</b> de Noped on the outskirts of the city. So, the pare once small villages, but in some placative new towns have been built. Con the cars can get into the city by railway or motology. | New <b>commuter settlems</b> developed on the outskirts of the city. He were once small villages, but in some has entire new towns have been built. The muters can get into the city by railway or 1. The way. | New <b>commuter set en ints</b> developed on the outskirts of the lith Some were once small villages, but in sour places entire new towns have been book. Sommuters can get into the city by railway are lotorway. | New <b>commuter settlements</b> developed on the outskirts of the city. Some were once small villages, but in some places entire new towns have bean holds. Commuters can get into the city by rai way or motorway. | New <b>commuter settlements</b> developed on the outskirts of the city. Some were once small villages, but in some places entire new towns have been built. Commuters can get into the city by railway or motorway. | New <b>commuter settlements</b> developed on the outskirts of the city. Some were once small villages, but in some places entire new towns have been built. Commuters can get into the city by railway or motorway. |    |



### ລາວິວາ ∢ties grow – fact sheet 7 (Task

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| Zig<br>Zog<br>Education |
|-------------------------|
|-------------------------|

regeneration and re-urbanisation encourages developers to look at **br**v **Greenbelt** policy protects areas of la

<u>regeneration</u> and <u>re-urbanisation</u> and preventing <u>urban sprawl</u>

encourages developers to look at **brownfield** sites in the city first, encouraging **Greenbelt** policy protects areas of land around the city from being developed.

enting urban spraw d the city from being developed. sites in the city first, encouraging

regeneration and re-urbanisation and encourages developers to look at **brownfield** sites in the city first, encouraging **Greenbelt** policy protects areas of land around the city from being developed. preventing **urban sprawl** 

Greenbelt policy protects areas of land around the city from being developed. It regeneration and re-urbanisation and preventing urban sprawl encourages developers to look at **brownfield** sites in the city first, encouraging Greenbelt policy protects areas of land around the city from being developed. It

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Greenbelt policy protects nisation and preventing urban sprav നു of land around the city from being ഗ at **brownfield** sites in the city first, end ിoped.

encourages developers to '

aging

regeneration and re-urbanisa encourages developers to loo. "" Greenbelt policy protects arcas regeneration and re-urba tion and preventing urban sprawl ຶ land around the city from being devc ຈ¢ ે ત્રી. It **<u><b>urownfield**</u> sites in the city first, encou and preventing **urban sprawl** 

regeneration and re-urbanisation encourages developers to look at <u>h</u> **Greenbelt** policy protects areas c<sup>5/</sup>, ু চreventing **urban sprawl** I around the city from being develop $\epsilon^{-1}$ **nfield** sites in the city first, encouragin





are

being transformed into

res and new multi-use buildings are

, erected

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are being transformed into offices and new multi-use buildings are being erected the waterways, improving pedestrian and cycle access and installing CCTV. Old buildings The **central business district** has been revitalised by improvements such as cleaning up

the are being transformed into offices and new multi-use buildings are being erected The **central business district** has been revitalised by improvements such as cleaning up waterways, improving pedestrian and cycle access and installing CCTV. Old buildings central business district has been revitalised by improvements such as cleaning up

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are being transformed into offices an the waterways, improving pedestria The **central business district** has bo lised by improvements such as cl le access and installing CCTV. Olo

are being transformed into offices and new multi-use buildings are the waterways, improving pedestrian and cycle access and installing CCTV. Old buildings The **central business district** has been revitalised by improvements such as cleaning up hulti-use buildings are being erecte

being erected

### ລາວິດv ∢ties grow – fact sheet 9 (Task

Make one copy – cut along dotted lines and pin in in 📉 e classroom

unemployment meant people moved away (depopulation).

the city went into decline and the UK economy became a service economy.

Rising

**Deindustrialisation** of the CBD and inner city occurred when manufacturing industries in

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Education

unemployment meant people moved away (depopulation). the city went into decline and the UK economy became a service economy. Rising **Deindustrialisation** of the CBD and inner city occurred when manufacturing industries ₹.

Deindustrialisation of the CBD and inner city occurred when manufacturing industries unemployment meant people moved away (depopulation). the city went into decline and the UK economy became a service economy. Rising **Deindustrialisation** of the CBD and inner city occurred when manufacturing industries in

unemployment meant people moved away (depopulation). the city went into decline and the UK economy became a service economy. Rising =

unemployment mean se the city went into dec **Deindustrialisation** or a e CBD and inner city occurred when ran and the UK economy became a service ple moved away (depopulation). ్షాంగ్రాంగ్లు. Rising \*acturing industries

unemployment meant pecalic noved away (depopulation). the city went into decline a **Deindustrialisation** of Ն / RD and inner city occurred when manuthe UK economy became a service ecor rayring industries Rising =

unemployment meant people . > ^\* the city went into decline and ha **Deindustrialisation** of the C D. Nd inner city occurred when manufact ≪ir. Nindustries in JK economy became a service econor. d away (depopulation).

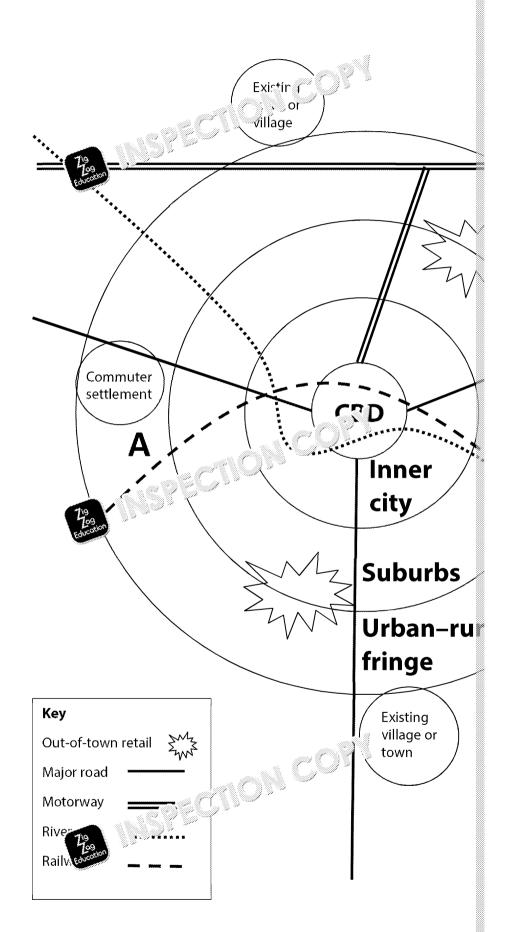
unemployment meant people move the city went into decline and the **Deindustrialisation** of the CBD and a her city occurred when manufacturing is . ≪ay (depopulation). conomy became a service economy. His istries in

unemployment meant people movec the city went into decline and the UK **Deindustrialisation** of the CBD and lepopulation) y became a service economy. Ris occurred when manufacturing in



### Model of a city (Task 5.3)

Copy to A3. Make as many copies as no. of students/2 – give students one between



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### Mini booklet template (Task 5.4) Copy duplex. Make as many copies as no. of students – give students one each

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What happens next...؟

Write a conclusion – suggest why the cycle may not happen in this order or at all

1. Fold along \*1.

dotted lines ......

Title of boo

Fold along the dashes

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5.

Cut alo

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Describe the first stage of the cycle...

What happ

### **Lesson 5: Answers**

### Abbreviation of Assessment Objectives (AO):

- 1. Knowledge
- 2. Understanding
- 3. Application of knowledge and understanding
- 4. Skills

### 5.1 Starter

|    | acts about London in 2011   | True     | False    |              |
|----|---|----------|----------|--------------|
| 1  | To lation of Greater London grew by one million in the ecade between 2001 and 2011.           | ✓        |          | ا<br>8       |
| 2  | The increase in population was greatest in the outer parts of the south and east of the city. |          | ~        | li<br>a<br>C |
| 3  | More people living in London were born outside the UK than within it.                         |          | <b>✓</b> | 5<br>b       |
| 4  | 76% of people migrating to the capital came from Europe.                                      | ✓        |          | 00000000     |
| 5  | Around 262,000 people in London were born in India – the top non-British country of birth.    | ✓        |          |              |
| 6  | There are more British people from ethnic minorities living in the city than white British.   | l        | ✓        | ۷<br>=       |
| 7  | The most popular language spoken in London after English is Portuguese.                       |          | ✓        | P<br>p       |
| 8  | Half of Londoners rent their homes.   | ✓        |          | 2            |
| 9  | There is more overcrowding north river and to the east and west of the cost e.                | ✓        |          |              |
| 10 | Most adults in Nove in full-time or part-time   | <b>✓</b> |          | 4            |
| 11 | Ti more people employed in the finance sector than in health or education.                    |          | <b>✓</b> | F            |
| 12 | 82% of adults in London have some form of qualification.                                      | <b>✓</b> |          | 1            |

### 5.2 Task

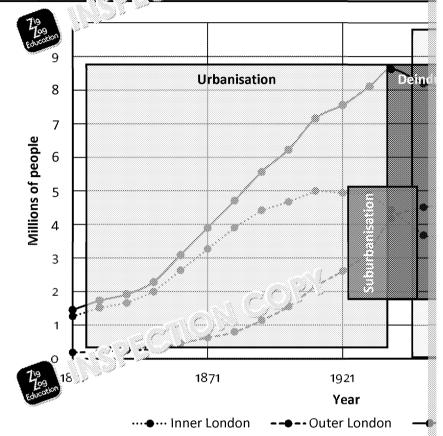
| Question | AO  | Answer   |  |  |  |
|----------|-----|--|--|--|--|
| (a)      | AO1 | (iii) The physical growth of the city – the change in the area of  |  |  |  |
| (b)      | AO1 | Most recognise both:  ■ increase in proportion of population;  ■ living in urban areas compared + , al areas.  |  |  |  |
| (c)      | AO4 | <ul> <li>Approximately 2.3 million; (a) (+ or - 0.1 million) (1)</li> <li>There is developed (2)</li> <li>Alation has increased by over five million and the nuch greater area. Growth has mainly been away from the and south and along the river to the west (2).</li> </ul>                                 |  |  |  |
| (d)      | AO4 | Allow + or – 0.1 million on all readings from Figure 5.3.  (i) The population decreased from 4.9 million in 1921 to 3.7 million in 1921 to 3.7 million people) before increased iii) The population increased from 2.7 million in 1921 to 5.6 million people) between 1921 and 1941 and again between 1991 and |  |  |  |

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### 5.2 Task (continued)

| Question | AO  | Answer   |  |  |  |
|----------|-----|--|--|--|--|
| (e)      | AO2 | See graph below  |  |  |  |
| (f)      | AO2 | Deindustrialisation – closure of manufacturing industries leave to find work elsewhere (2)  Relocation of urban por a lease Wir – movement of people beyond the Lond of the contain area) to improve living decrease the laner city where people were poorest, respectively. It is a conditions were better (2). |  |  |  |



### 5.2.1 Extension

AO3 Students should identify the reasons for the increase in population from 1991 to inner city and international migration. They should consider the advantages and disampopulation of London and wider metropolitan area in order to make a judgement about positive or negative.

| Mark | Answer   |
|------|--|
| 1    | Summarises a judgement   |
| 2    | Gives an argument in support of the judgement                        |
| 3    | Gives an argument against the judgement                              |
| 4    | Explains the supporting argument for the                             |
| 5    | Explains why the argum the judgement is not as important as the      |
| 6    | Gives facts to A arguments for and against                           |
| 7    | mc i arrone argument in support of and against the judgement         |
| 8    | s how the answer might be different in a different situation or unde |

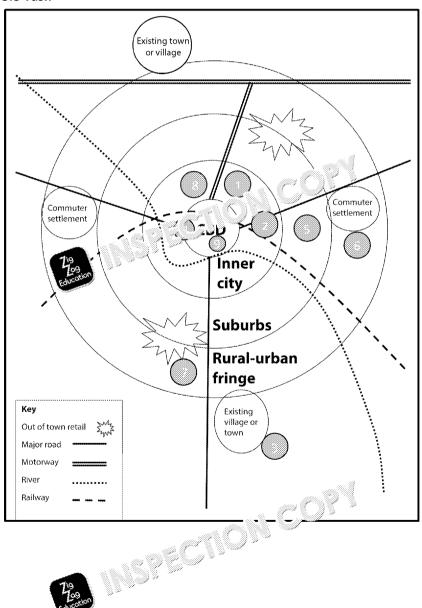
Examples of advantages and disadvantages of regeneration and international migration wider metropolitan areas that could be included.

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|                      | Advantages  |  |
|----------------------|---|--|
| Regeneration         | Creates more jobs and leads to economic growth which in turn creates more jobs (the multiplier effect).         | The jobs existing positive attract multiprover which get other particular communitations are also as a second communitation of the comm |
| Internat 79 migratio | multiplier effect means that more people should create more jobs and opportunities for the existing population. | There is retransport health are Rising decost of liverises.  |

### 5.3 Task



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AO1 A

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1. Re-u 2. Gen 3. Cou 4. Res 5. Sul 6. Con 7. Urb 8. Cen

9. De



| Question           | stion AO Answer |   |
|--------------------|-----------------|---|
| Extension<br>5.3.1 | AO2             | Reason (1), and further explanation (1):  For better quality of life, including more space and less pollution.  As communications technology improves, enabling people to work remains as transport links improve, enabling people to commute more easily.  To find work because manufacturing industries have closed or moved else |

### Extension 5.3.2

**AO3 Students** 

| Mark | Angri (  |
|------|--|
| 1    | Summarises a judgement   |
| 2    | Gives an argument in support of the inage reports  |
| 3    | Gives an argument against . de nent  |
| 4    | Explains the: 13 ng 3 gument further  Explains why to a sument against the judgement is not as important as that supporting is |
| 5    | Explains why toward against the judgement is not as important as that supporting is  |
| 6    | Gives facts to support the arguments for and against   |
| 7    | Gives more than one argument in support of and against the judgement   |
| 8    | Outlines how the answer might be different in a different situation or under different con                                     |

Suggest how this might affect the spatial growth of the city in future – changes, and further explanation

|          | Positive   |   | Negative   |
|----------|--|---|--|
| <b>√</b> | New business will attract new employees – increase in population of the city as the new businesses are likely to need specialist skills  | × | Business already located in the out for more space and cheape centre may go into decline   |
| <b>~</b> | Increased population will create demand for new housing — likely to see expansion of commuter settlement and possible new settlements around the industrial park, creating wealth for the city | × | Removal of land from the green countryside in the rural—urban on quality of life for people livin A life row towards the we how cused along the road corrigions this route may become puleading to loss of their distinctive |

### 5.4 Plenary

This task is peer-assessed the lesson. Chronological order of the stages of the cycle is indicate processes may run in parallel:

- 1. Urbanisation
- 2. Deindustrialisation and decline
- 3. Suburbanisation
- 4. Urban sprawl
- 5. Regeneration, gentrification and re-urbanisation
- 6. Counter-urbanisation





### Lesson 6 Overview: Urban la



**Learning questions**: What are the characteristics of land use in urban a

New key terms: accessibility, availability, cost, planning regulations, density

Associated Task Sheet: 6 – pages 109 – 112
Associated PowerPoint file: Lesson For

6.A Preparation

Worksh 📆 d i 🛂 ources for photocopying:

|           | 1 Edward                                 |              | <del></del>                      |
|-----------|--|--------------|----------------------------------|
| For event | Description                              | Page(s)      | Photocopies r                    |
| 6.1       | Influences on land use                   | 113 – 114    | Copy duplex. Nur<br>students/2 = |
| 6.2       | Resource sheet 1: description and photos | 115          | Number of studen                 |
| 6.2       | Resource sheet 2: satellite images       | 116          | Number of studen                 |
| 6.2       | Resource sheet 3: OS maps                | 117          | Number of studen                 |
| 6.2       | Land use fact file (3 pages)             | 118 –<br>120 | Copy duplex. Nur<br>students =   |
| 6.3       | Bingo cards – sheets 1–4                 | 121 – 12,    | Copy once                        |
| 6.3       | Bingo clues                              | 125          | Make one copy for teacher        |

Other resources with head to provide:

- ✓ Scin 19 and the for Task 6.2.
- ✓ Glue carrotter or hole punch to attach worksheets

### 6.B Individual student planning

Use this section to tailor your lesson plan to individual students in your class.

|       | Student(s) | Detail of acti |
|-------|------------|----------------|
| G&T   |            |                |
| SEN   |            |                |
| EAL   |            |                |
| Other |            |                |

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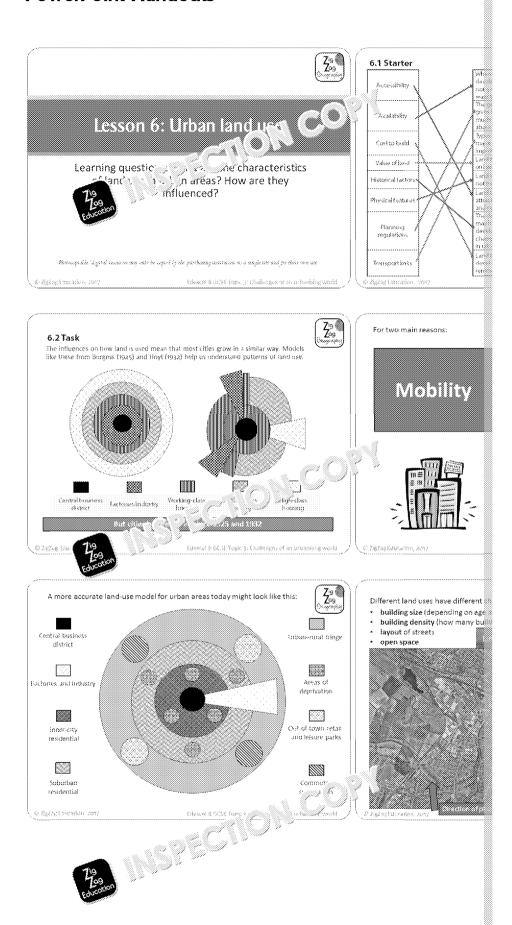


### 6.C Teaching and learning plan

| Suggested | Event                              | 7 3 hatructions   |   |
|-----------|------------------------------------|---|---|
| time      | LVCIIC                             |   | workshee  |
| 15 mins   | 29<br>Education<br>U.T<br>Starter  | Instruction in working independently, search for the influences on how in its again urban areas then match the influence on land use in its increas to the correct description.  Teaching strategy: develop student knowledge by asking questions in relation to the descriptions, e.g. what does it mean when it says? What might cause that to happen?  Learning outcome:  All: know the eight influences on land use in urban areas.  Most: identify the reasons why the influences determine how land is used in urban areas.  Some: can identify links between different land-use influences.  | Influences of<br>land use<br>wordsearch<br>Influences of<br>land use mand match |
| 25 mins   | 6.2 Task<br>79<br>209<br>Education | Instruction to students: working independently, compile the fact file of landuse descriptions, photos, satellite images and OS more. Draw your own model of land-use structure in a modern city and atting it with descriptions of the characteristics of land use. Extersion est the limitations of using urban land-use models  Teaching strategy Cook for characteristics of land use in relation to lead, in the cook for characteristics of land use in relation to lead, in the cook for characteristics of land use might vary between cities and between developing, emerging and developed countries.  Learning outcome:  All: can identify the characteristics of land use in urban areas.  Most: can link land-use characteristics, type and location and explain these in terms of influences on land use.  Some: suggest limitations of land-use models. | Land use fa<br>file templat<br>Resource<br>sheets 1, 2                          |
| 20 mins   | 6.3<br>Plenary                     | Instruction to students: working independently or in pairs, play bingo as a class. Your teacher will read out a clue – look to see if the keyword from today's lesson that the clue refers to is on your conditions it off. There are nine words out of 21 on each and.  Teaching strategy: develop for the normal discussing what the clues mean.  Learning out the same of land use and land-use types.  All: In the same of land use and land-use types.  Nost: know the correct definitions for the keywords.  Some: can explain why the clues define the keywords to their partner.  | Bingo cards<br>You will ne<br>the Bingo<br>clues                                |



### **PowerPoint Handouts**



### INSPECTION COPY





- (a) Cut out the descriptions and images from the three resource sheets:
  - Land-use descriptions (generic) and photographs of areas of Bristol
  - Satellite images of areas of Bristol (mixed scales)
  - iii. Sections of the Ordnance Survey map of areas of Bristol (mixed scales)
- (b) Use the template sheets to organise the information to create a fact file of landuse characteristics.
- (c) From your understanding of land use in urban areas draw your own model of a city. Annotate it to describe the characteristics of land use in the different and why they have evolved at these locations.



described. The first player to get three in a row and the first player to get a full house (all words in your grid) will be the winners.

6.3 Plenary On your bingo cards are nine words from

today's lesson.

definitions.

Your teacher will read out clues for their

eacher and <u>cross off</u>

e relevant word

when you hear it









### **NSPECTION**



### Task Sheet 6: Urban land



**Learning questions:** What are the characteristics of land use in urban a

New key terms: accessibility, availability, cost, planning regulations, densi

### 6.1 Starter

In urban areas land is used in many (free neways – for housing (residential), sactories and workshops (trai), parks and nature reserves (open space) (leisure). What we have a perfect that the same of factors.

(a) Find was ght influences on how land is used in urban areas.



(b) Match each factor with the correct description of how it influences land

### -Extension 6.1.1------

Some of these influences are interlinked – they impact on each other, e.g. poriginally have been influenced by physical factors, which could be areas to natural resources such as coal or clay. Find two notes amples of how the linked.



### SPECTION COPY



### Accessibility

**Availability** 

Cost to build

Value of land

Historical factors

Physical features

Planning regulations

Transport links

When there is a lot of demand for land from competing developers land becomes more expensive. Land use that does not generate an income of from developers who want to make more money.

The government sets out overarching planning policy in the UK authorities the power to control where, what and how much dehappens. Developers must follow certain rules about what can get permission before they begin.

Types of land use that require good access will be found close routes. Roads, cycle routes and paths may reed to be improve of new development.

Land that is in high dar a general gen

a. ( ` कि too difficult to develop, attractive or valued for nation, lesulting in open spaces within the city.

Land that is most accessible (i.e. has good transport links) will be developers for a range of land uses including industrial and combined to the combined to

The decline of industries and damage from war or natural disastiand to become derelict. The design and development of both commercial development has changed over time. This can be characteristics of land use in urban areas.

Land that hasn't been built on before is often cheaper and easily because it doesn't need to be cleared and any contamination is schemes are more expensive to build.

### 6.2 Task

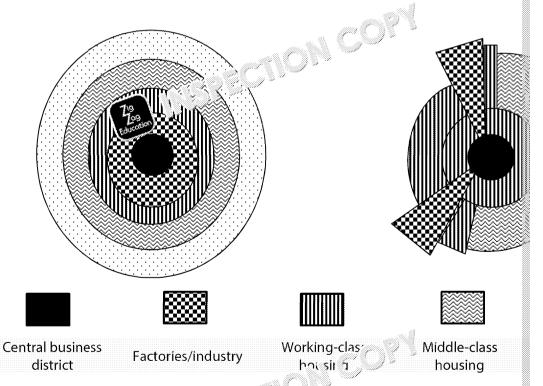


Figure 6.1: Land-use models from the early twentieth century – Left: Burgess, 1925 & Rig



### COPYRIGH

The influences on how land is used mean that most cities grow in a similar way. Models such as those in Figure 6.1 from Burgess (1925) and Hoyt (1932) help us understand patterns of land use. Commercial and retail activities are found at the centre because it is the most accessible part of the city, making it a reliable market

UK hous rose from RAC, 20

for businesses. But there is only a finite amount of land available at the centre become very expensive. Residential areas develop where and is cheaper (on the development of 'layers' of different aged have not the city grows. Generatowards the outskirts of the city. However, the city grows how industrial, condevelop along major transport and the city.

In development today because cities for two less assons:

- 1. **Mobility** The rise in car ownership has made it easier for people to get Developers have built large out-of-town developments for retail, leisure land is cheap. They can afford to buy large plots and it's easy to build on before. They provide large, free car parks making it easier for people to parking is expensive and limited.
- 2. Inner city decline and regeneration In recent year's cities have been responsible to the demise of industry and, in the UK, bombing during WWII, have been and housing, and people who can afford to improve their homes have been inner city where the culture is vibrant and housing is cheap (gentrification people living in the inner city and some of them are very wealthy.

A more accurate land-use model for urban areas today might look like this:

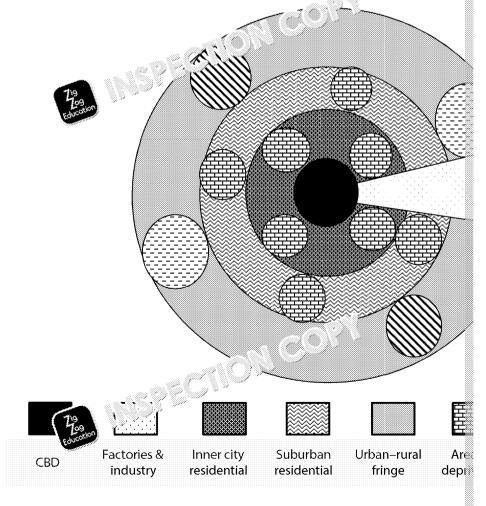


Figure 6.2: Suggestion for a modern model for cities in deve

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Different land uses have different characteristics, e.g. the **layout** of streets and will be different depending on the age and use of the buildings, the **density** (he will vary as will the amount of **open space** available. You can see these characteristics of different land uses the characteristics of different land uses.

- (a) Cut out the descriptions and images from the thread ource sheets:
  - i. Land-use descriptions (generic)
  - ii. Satellite images of areas of raise miled scales)
  - iii. Sections of the Ordn പര് ട്രൂ. മy map of areas of Bristol (mixed scal
- (b) Use mp meets to organise the information to create a fact file of
- (c) From your understanding of land use in urban areas, draw your own mode the characteristics of land use in the different areas and why they have example 1.

### Extension 6.2.1 -----

Suggest the limitations of using urban land-use models to understand how

- (i) in different cities in developed countries;
- (ii) in cities in developing and emerging countries.

### 6.3 Plenary

On your bingo cards are nine words from today's lesson. Your teacher will real Listen carefully to your teacher and cross off the relevant yord when you hear three in a row and the first player to get a full house words in your grid) will check your answers before declaring a classic trapion.



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NSPECTION N





### Influences on land use (Starter 6.1) (copy

Make as many copies as no. of students/2 – cut out and give one wordsearch to each

### S G Ρ NXLERAM Ζ J 0 G Р S R Р Χ Y $\mathbf{F}_{i}$ Η Р Y Χ F D Р Ν $\mathbb{C}$ S Ι Μ 0 $\mathbf{L}$ $\mathbb{C}$ S Α F L Α Р Α Ν Ε Ή Р T В Η Ν Y G >F" S Τ, V K W K Ν Χ V Ζ Ι V F В Χ Ν D D Р V В L L Н F Ν 0 Y Χ A C Z Y I Α S В T Z Α Ι L В L Α X Η D Ι W Y $\bigvee$ C C Ε W $\bigvee$ В Ι М R Ν CΕ L S Ε Ε В Η 0 0 Ι U K М A Τ Ι Τ Τ R Ν S Р 0 R L Ν K G Α Χ Η C Τ 0 В 0 D D 0 $\mathbf{L}$ В K 0 F Τ U R Ι F Τ Ε J Ι I G D D F D G Z F Χ Ζ S C L C R S K $\mathbf{L}$ G D 0 0 J D Α F Ε U $\mathbf{L}$ Α Ι $\mathbb{W}$ S Ι Ν L 0 Α $\bigvee$ D М Y K U L Η Ε L Ε CΗ C S Ν Ι В Ε C C MM J Η Υ D Р C L Τ S Τ C М Ε Y J 0 G Τ Ζ Ε Ι JUMML 0



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### Accessibility

**Availability** 

Cost to build



Historical factors

Physical features

Planning regulations

Transport links When there is a lot of demand for land from compet expensive. Land use that does not generate an incodevelopers who want to make more money.

The government sets out overarching planning policauthorities the power to control where, what and hopevelopers must follow certain less about what car before they begin.

Types of the day that require good access will be formula is, constructes and paths may need to be improved aeropment.

Land that is in high demand (e.g. because it is access) valuable.

Land that is too difficult to develop, attractive or value resulting in open spaces within the city.

Land that is most accessible (i.e. has good transport for a range of land uses including industrial and compared to the compar

The decline of industries and damage from war or nat to become derelict. The design and development of development has changed over time. This can be see in urban areas.

Land that hasn't been built on before is often cheaper doesn't need to be cleared and any contamination respensive to build.





**Availability** 

Cost to build

Value of land

Historical factors

Physical features



Transport links

When there is a lot of demand for land from compet in expensive. Land use that does not generate an incompevelopers who want to make more money.

The government sets out overarching planning police authorities the power to control where, what and how Developers must follow certain rules about what care before they begin.

Types of land use that require good access will be for Roads, cycle routes and paths may need to be improvedevelopment.

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Land that is too difficult to develop, attractive or value resulting in open spaces with a tipe city.

Land that is an accessible (i.e. has good transport for ran a common and uses including industrial and common accessible (i.e. has good transport in the common accessible (i.e. has good transport

The decline of industries and damage from war or nat to become derelict. The design and development of development has changed over time. This can be see in urban areas.

Land that hasn't been built on before is often cheaped doesn't need to be cleared and any contamination respensive to build.

### USPECTION COPY



### Resource sheet 1: Description and photos

Make as many copies as no. of students - give one to each student

### Land use description

These are residential areas built during previous centurie to buse the workers of The land use is characterised by a grid street syst and find aller narrow, straight stretwo-down with small backyards. Pocket to broad on exist in areas redeveloped twentieth century – often characterises in the hagn-rise flats.

Late tween an wenty-first century development on the edge of the city style development and large areas of industrial estates, retail parks or business parand of various design but built in the same materials and at the same time, except agglomerated with the urban area. Retail and leisure facilities have been built on

These are usually derelict or disused industrial areas that are undergoing redevelopenvironmental improvements (public art and open spaces) and the creation of a contave invested in 'flagship' buildings – e.g. a new museum, a shopping centre, a stablive in the area. Architecture is characterised by reuse of heritage buildings alongs

This is an area of mid-twentieth-century housing (built in the 1930s) – mostly semist bedroom houses with gardens. Land use is characterised by low-density housing at (most roads connect, with small cul-de-sacs). There are pockets of deprivation in a pare local high streets and parks.

Main roads circulate traffic around the centre of the city, who is large multi-occupancentres and office blocks, have been built. Some main. Les and squares have been traffic). The main bus station and rail station are locally.

Areas where manufacturing was once located. This particular area was or chocolate factory mass and aircraft manufacturing. Some of the brownfield industriction of the brownfield industriction. Land use is characterised by large, densely packed buildings along derelict land.

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### Resource sheet 2: Satellite images (Task

Make as many copies as no. of students – give one copy to each student

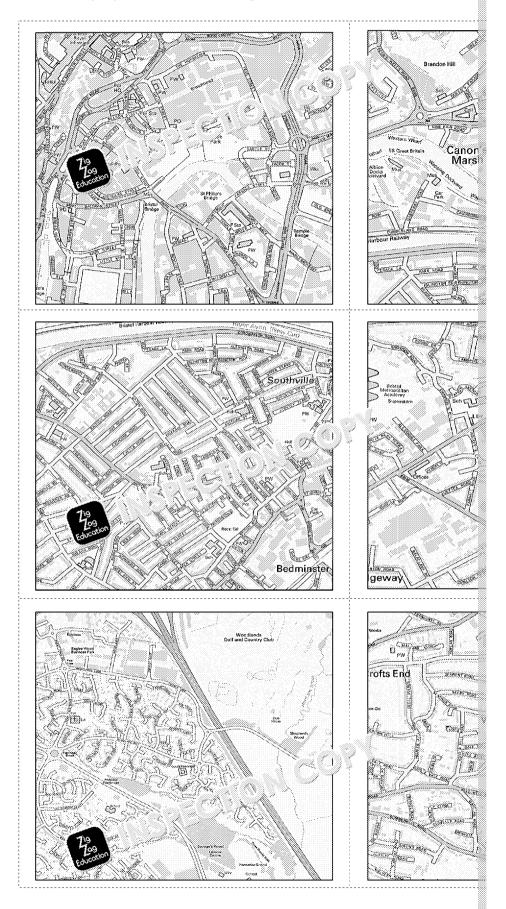


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### Resource sheet 3: OS maps (Task 6.2)

Make as many copies as no. of students – give one to each student



## INSPECTION COPY



### Land use fact file template (Task 6.2)

Copy duplex – make as many copies as no. of students – give one to each student

Commercial and retail (within the CBD)

4લ aલા કિક ' ase description here Attach satellite image here Inner city is side of the side

Attach land use description here

Attach satellite ime: ? 1e



**NSPECTION** 



### Attach land use description here



Attach satellite image here

### The urban-rural fringe



Attach land use description here

Attach satellite image have



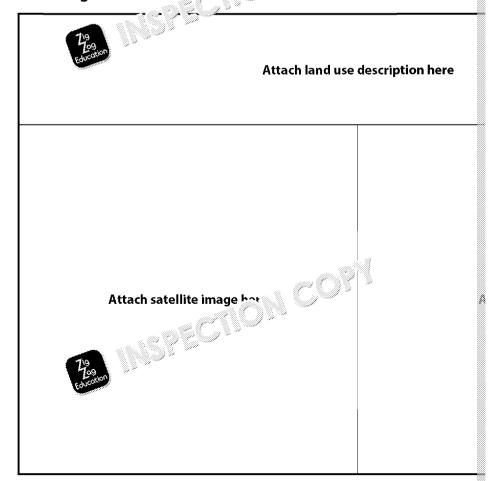


### Old industrial areas

### Attach land use description here Attach satellite image here

### **NSPECTION COPY**

### **Urban regeneration**





### ் ந் ர்o cards – Sheet 1 (Plenary 6.இ

Make one copy per game to be played – cut out jugges, card to each student

|        | Planning to the state of the st | orical<br>factors         |         | Open space              |
|--------|--|---------------------------|---------|-------------------------|
| Card 1 | 79<br>709<br>Educator Cummercial   | Inner-city<br>residential |         | Suburban<br>residential |
|        | The urbair—<br>rural fringe  |                           | Density | Retail                  |

|      | Histor facto |
|------|--------------|
| rd 2 | Suburt       |
| Car  | residen      |
|      | Accessil     |

|        |        | Open space         | Out-of-town<br>leisure park | Transport<br>links |                      |
|--------|--------|--------------------|-----------------------------|--------------------|----------------------|
| Card 3 | Layout | Accessibility      |                             |                    | Areas of deprivation |
|        |        | Historical factors |                             | Building si-       | ava ability          |

| Card 4 | Building |
|--------|----------|
|        | Physic   |
|        | featur   |

|        | Old industrial |                      | factions                  | Layout |
|--------|----------------|----------------------|---------------------------|--------|
| Card 5 | Open sp        | , h)                 | he urban–<br>rural fringe |        |
|        | Buildin 709    | Areas of deprivation | Density                   |        |

|      | Suburt    |
|------|-----------|
|      | resider   |
| 9 p  | Inner-€   |
| Card | residen   |
|      | Out-of-t  |
|      | leisure 🏽 |

|        |                             | Density           |                            | Layout                  | Open space |
|--------|-----------------------------|-------------------|----------------------------|-------------------------|------------|
| Card 7 |                             | Physical features | The urban–<br>rural fringe | Suburban<br>residential |            |
|        | Out-of-town<br>leisure park |                   | Cost to build              |                         | ommercial  |

|        | Open sp             |
|--------|---------------------|
| Card 8 | Out-of-t<br>leisure |
|        | Reta                |

|        |             |               | dere nuon            | Open space           | Transport<br>links         |
|--------|-------------|---------------|----------------------|----------------------|----------------------------|
| Card 9 | Availa: 7.9 |               | Areas of deprivation |                      | Suburban<br>residential    |
| _      | Educatio    | Cost to build |                      | Planning regulations | The urban–<br>rural fringe |

| •       | Reta     |
|---------|----------|
| Card 10 | Building |
| 0       | Old indu |



### ் ந் ுo ards – Sheet 2 (Plenary 6.

Make one copy per game to be played – cut out a grand to each student

|         | The urban-<br>rural fring |              | Layout             |              | Planning regulations |
|---------|---------------------------|--------------|--------------------|--------------|----------------------|
| Card 11 | Phy 19                    |              | Transport<br>links | Regeneration |                      |
|         | Out-of-town               | Availability | Suburban           |              |                      |
|         | leisure park              | ,            | residential        |              |                      |

| Cost to build |                            |                     | S .                  |
|---------------|----------------------------|---------------------|----------------------|
|               |                            | Accessibility       | Planning regulations |
| Building size | The urban-<br>rural fringe | Inner-city<br>resid |                      |

|        | Value of land         | Planning<br>regulations | Juc-of-town<br>leisure park |                |
|--------|-----------------------|-------------------------|-----------------------------|----------------|
| ard 15 | Availabil             | Inne Signal             | Areas of deprivation        |                |
|        | Den. 709<br>Education | Suburban<br>residential |                             | Old industrial |

|        |               | Density        |            | Planning regulations    | Retail              |
|--------|---------------|----------------|------------|-------------------------|---------------------|
| ard 17 |               | Old industrial |            | Suburban<br>residential | Physical<br>focures |
|        | Cost to build | Commercial     | Open space |                         |                     |

| 6       | Planning<br>regulations       |               | zures         | Regeneration         |        |
|---------|-------------------------------|---------------|---------------|----------------------|--------|
| Card 19 | 72                            | O ! j. janal  | Accessibility |                      | Retail |
|         | The ur coucation rural fringe | Value of land |               | Areas of deprivation |        |

| d 12 |         |
|------|---------|
| Card |         |
|      | Inner-€ |
|      | resider |
|      |         |

| Card 14 | Areas   |
|---------|---------|
|         | depriva |
|         |         |
|         | Comme   |
|         |         |
|         | Plann   |
|         | regulat |
|         |         |

| _       | Comme           |
|---------|-----------------|
| Card 16 | Histor<br>facto |
|         | Densi           |
|         | ***             |

| 3       |         |
|---------|---------|
| Card 18 | Regener |
|         | Densi   |
|         | ***     |

|         | Value of |
|---------|----------|
| Card 20 |          |
| Ca      | _        |
|         | Comme    |



### ் ந் ுo ards – Sheet 3 (Plenary 6.

Make one copy per game to be played – cut out jugges ... card to each student

|        | Availability             | Arear ;    |            |              | Suburban<br>residential |
|--------|--------------------------|------------|------------|--------------|-------------------------|
| ard 21 | Inne 19<br>reside Aucono | Open space |            |              | Physical features       |
|        |                          |            | Commercial | Regeneration | Cost to build           |

| ard 23 |                      | Historical factors |              | Cost to build | Suburban<br>residential |
|--------|----------------------|--------------------|--------------|---------------|-------------------------|
|        | Areas of deprivation |                    | Regeneration |               | Layout                  |
| J      | Out-of-town          |                    | Open space   | Commerci ,    |                         |

| 15     | Suburban<br>residential        |   | / pen s .c           | Building size |                |
|--------|--------------------------------|---|----------------------|---------------|----------------|
| ard 25 | Areas of deprive 1/9           |   | Planning regulations |               | Commercial     |
|        | The un 109 rural fr. Education | ) | Value of land        |               | Old industrial |

|        |            |               | Suburban<br>residential | Physical<br>features | Transport<br>links |
|--------|------------|---------------|-------------------------|----------------------|--------------------|
| ard 27 |            | Layout        | Retail                  | Availability         |                    |
|        | Open space | Building size | Cost to build           |                      |                    |

| Card 29 | Commercial        |          | Arêc vation | Out-of-town<br>leisure park |              |
|---------|-------------------|----------|-------------|-----------------------------|--------------|
|         | 72                | 1 5, 344 | Open space  | Old industrial              |              |
|         | Regener Educotion |          |             | Retail                      | Availability |

|      | Value of |
|------|----------|
| d 22 |          |
| Card |          |
|      | Cost to  |
|      | I        |
|      | Building |

| 24     | Building         |
|--------|------------------|
| Card 2 | Physic<br>featur |

| 26   | Areas<br>depriva |
|------|------------------|
| Card | Building         |

|         | Regener |
|---------|---------|
| Card 28 |         |
| ౮       | Comme   |
|         |         |

|      | Accessi |
|------|---------|
| J 30 | Physi∈  |
| Card | feature |
|      | Histor  |
|      | facto   |
|      | ***     |

# $\overline{Z}$



### ் ந் ards – Sheet 4 (Plenary 6.

Make one copy per game to be played – cut out jugi jugi jugi card to each student

| 1      |                  | Value : a .       | Ketail                 |               | Transport<br>links         |
|--------|------------------|-------------------|------------------------|---------------|----------------------------|
| ard 31 | 719<br>Education | Availability      | Inner-city residential | Cost to build |                            |
|        |                  | Physical features |                        | Open space    | The urban–<br>rural fringe |

|         | Physi∈    |
|---------|-----------|
| ~       | featur    |
| Card 32 | Cost to 🛭 |
| J       | The urb   |
|         | rural fr  |
|         | 333       |

| Card 33 | Value of land | Retail | Suburban<br>residential   |               |                      |
|---------|---------------|--------|---------------------------|---------------|----------------------|
|         |               |        | Areas of deprivation      | Cost to build | Planning regulations |
|         | Accessibility |        | Inner-city<br>residential |               | n. orical factors    |

| _       | Regener |
|---------|---------|
| Card 34 |         |
|         |         |

| 10     |                  | Availability      | Out Can<br>Isure park |        | Areas of deprivation       |
|--------|------------------|-------------------|-----------------------|--------|----------------------------|
| ard 35 | Regener          | Plan, T           |                       | Layout |                            |
|        | Zog<br>Education | Physical features | Old industrial        |        | The urban–<br>rural fringe |

| 9E p. | Comme   |
|-------|---------|
| Card  | Inner-€ |
|       | resider |

|        |              | Density       | Open space    | Out-of-town<br>leisure park |
|--------|--------------|---------------|---------------|-----------------------------|
| ard 37 |              | Cost to build | Accessibility | Value of land               |
| ١٠     | The urban-   |               | Augile        | ld industrial               |
|        | rural fringe |               | Avail         | ju maustriai                |

| <b>~</b> | Plann<br>regulat |
|----------|------------------|
| Card 38  | Open sp          |
| 0        |                  |

| 39    |                                | Layout        |         | Planning regulations | Inner-city<br>residential |
|-------|--------------------------------|---------------|---------|----------------------|---------------------------|
| ard 3 | Acces                          | ic<br>Latures |         |                      | Value of land             |
| 5     | Subui Education<br>residential | - 100         | Density |                      | Transport<br>links        |

| Card 40 | Physica<br>featura |
|---------|--------------------|
| )       |                    |



### Bingo clues (Plenary 6.3)

Make one copy – for use by the teacher or chosen quizmaster

| Clue | Read aloud:  |
|------|--|
| 1    | This term is an influence on land use describing how much needs to be spet to develop a piece of land. This could be in terms of paring the site of cor or building adequate drainage to prevent for an influence on land use describing how much needs to be specified as a site of cor or building adequate drainage to prevent for an influence on land use describing how much needs to be specified as a site of cordinate to be specified as a site of co |
| 2    | This term is a characteristic of land taken development.   |
| 3    | This term is the course describing areas of flats and houses in the centre of the course of the cour |
| 4    | This term is an influence on land use describing how the landscape, bedroc rivers and nature can all determine where development can take place.   |
| 5    | This word is a characteristic of land use describing how much development built within an area.  |
| 6    | This term is a type of land use describing areas where new development ha on old industrial sites, bringing life back into derelict and run-down parts of  |
| 7    | This term is a type of land use describing areas where new housing developme retail, leisure and business parks are located. The countryside is only a short c   |
| 8    | This term is an influence on land use describing the power that the local au over what type of development is built where.   |
| 9    | This term is a characteristic of land use describing areas of land that have not   |
| 10   | This term is a type of land use describing areas where shopping and busines providing indoor recreational activities gather togotics. They usually have free parking to encourage people to spending to spending to encourage  |
| 11   | This term is an influence on land, contrade affect current uses  |
| 12   | This word is a to make describing areas where offices and businessed.  |
| 13   | rd is an influence on land use describing how easy it is to get to the snopping and recreational activities provided by a land use.  |
| 14   | This word is a characteristic of land use describing the way roads, railways $\hat{\epsilon}$ are arranged.  |
| 15   | This word is a type of land use describing areas where shops gather together the city centre or on the outskirts of the city.  |
| 16   | This term is an influence on land use describing the provision of roads, raily airports, buses and motorways within an area.   |
| 17   | This term refers to parts of the city where people are struggling to afford a standard of living. They are usually residential areas with estates of social built in the 1950s and 1960s.  |
| 18   | This term is an influence on land use describing how expensive the land is. expensive, the more likely it is to be used in ways an make most money, e commerce rather than housing.  |
| 19   | This term is a type of land use as a gareas where manufacturing once Most factories will have considered during the last century and their sites derelict and a second considered of the second of the |
| 20   | por annifluence on land use describing how much land there is that bed. When there is a shortage of land but lots of developers wanting it men its value increases.  |
| 21   | This term is a type of land use describing areas of housing surrounding the reaching as far as the outskirts of the urban area. Houses have been built f 1930s onwards, often along transport corridors.   |

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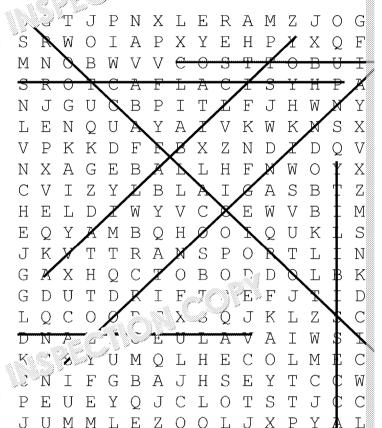
### **Lesson 6: Answers**

### Abbreviation of Assessment Objectives (AO):

- Knowledge
- 2. Understanding
- 3. Application of knowledge and understanding
- 4. Skills

### 6.1 Starter







Accessibility

**Availability** 

Cost to build

Value of land

Historical factors

Physical features

Planr regulat

Transport links When there is a lot of demand for land from competing depensive. Land use that does not generate an income combon want to make more money.

The government sets out overarching planning policy in the power to control where, what and how much development certain rules about what can be built where and get permittypes of land use that require good access will be found concerning to the cycle routes and paths may need to be improved or creat

Land that is in high demand (e.g. harmuse it is accessible  $\epsilon$ 

Land that is too difficult and over Jup, attractive or valued for in open space the city.

Land (met is Laccessible (i.e. has good transport links) (i.e. has good transport links)

The decline of industries and damage from war or natural become derelict. The design and development of both how has changed over time. This can be seen in the character Land that hasn't been built on before is often cheaper and need to be cleared and any contamination removed. Large build.

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### Extension 6.1.1

Examples could include:

- Value of land and any other factor value increases the more desirable and eas
- Planning regulations and historical factors or physical factors planning regulations significance, natural beauty or biodiversity value.
- Transport links and accessibility or availability land with good transport links is

### 6.2 Task

(a) & (b) Total 24 marks

Land-use descriptions

| 1 |           |
|---|-----------|
| 2 | 719       |
| 3 | Education |
| 4 |           |
| 5 |           |
| 6 |           |

| ni, t | Sat | tellite |
|-------|-----|---------|
| Ā     |     | i       |
| В     |     | iii     |
| С     |     | ٧       |
| D     | '   |         |
| E     |     |         |
| F     |     |         |

| Satellite | images | of Bristol |
|-----------|--------|------------|
|-----------|--------|------------|

| i   | ii |
|-----|----|
| iii | iv |
| ٧   | vi |

| Land use               | Description | Photo | Sate |
|------------------------|-------------|-------|------|
| CBD                    | 4           | В     |      |
| Inner city residential | 1           | D     |      |
| Suburban residential   | 3           | E     |      |
| Urban-rural fringe     | 2           | A     |      |
| Old industrial areas   | 6           | С     |      |
| Urban regeneration     | 3           | F     |      |

(c) AO2 Look for evidence that students have unrights to one another based on what they ' Loon 5, and have described their

### Extension 6.2.1

AO2 Limitation of the

total 2 marks for each of (i) and (ii)

|   | Developed countries  |   | Developi:                    |
|---|--|---|------------------------------|
| • | Cities have changed a lot since models were first developed.   | • | Cities are develo countries. |
| • | Re-urbanisation, counter-urbanisation and regeneration are happening differently for different cities. | • | They have develo             |
| • | Cities are becoming specialised in particular areas of the economy so may be developing differently.   | • | They are experie             |

### 6.3 Plenary

Answers are on the Bingo clues worksheet.



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### Lesson 7 Overview: Introducing Ri



Learning questions: What is the significance of Rio de Janeiro's site, s

New key terms: site, situation, connectivity

Associated Task Sheet: 7 – pages 131 – Associated PowerPoint file: Le

7.A Pre

resources for photocopying:

| For event | Description           | Page(s) | Photocopies r    |
|-----------|-----------------------|---------|------------------|
| 7.1       | Crossword             | 134     | Number of studen |
| 7.3       | True-and-false cards  | 135     | Number of studer |
| 7.4       | Map of Rio de Janeiro | 136     | Number of studer |

Other resources you may need to provide:

- ✓ Atlas for Task 7.2
- ✓ Scissors for Task 7.3
- ✓ Glue, stapler or hole punch to attach worksheets

### 7.B Individual student planning

Use this section to tailor your lesson plan to indiction to tucents in your class.

|       | Student(s)           | Detail of acti |
|-------|----------------------|----------------|
| G&T   | 72.2                 |                |
| SEN   |                      |                |
| EAL   |                      |                |
| Other | 7703<br>Librores (1) |                |

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### 7.C Teaching and learning plan

| Suggested<br>time | Event                              | 7 s n. structions  | Student<br>workshee                            |
|-------------------|------------------------------------|--|--|
| 10 mins           | 749<br>Education                   | Instruction: working independently, complete the crossword of the transport of amajor city in an emerging country — Rio de Janeiro in a strategy: develop student knowledge by leading discussion of answers at end of task.  Learning outcome:  All: know some of the key physical and cultural features of Rio de Janeiro.   | Work<br>crossword                              |
| 15 mins           | 7.2 Task                           | Instruction to students: working independently compile a fact file on the location of Rio de Janeiro. Use an atlas to find the answers to the questions. Describe Rio de Janeiro's site and situation.  Teaching strategy: develop student skills by offering advice on how to use the atlas and read the maps. Review correct answers during or at end of task.  Learning outcome:  All: know the location of Rio de Janeiro.  Most: can describe the site and situation of Factorians.   | Student atl                                    |
| 20 mins           | 719<br>Education                   | Instruction to students: working in air play or False to discover why Rio de Janeiro is important ac. In accordally and internationally. Record the nine factor of the world.  Teaching of the nine factor of the world.  | Cut-out-an<br>play true-<br>and-false<br>cards |
| 15 mins           | 7.4<br>Plenary<br>7.9<br>Fducction | Instruction to students: working independently, locate the signs of the city's connectivity from the map. Suggest reasons for the location of the CBD, expensive apartments and the favelas in terms of the city's site, situation and connectivity.  Teaching strategy: develop student understanding has king questions, e.g. How do people move around the city? How do goods and people move in and attache cay? Where might they be coming from or going to? Where might they be coming from or going to? Where might they does it affect the influence and what arazil, South America, and the world? Lead class discount of mains at the end of the task.  Lear in the city is connectivity.  Nost: explain the significance of the city's connectivity.  Some: use site, situation and connectivity to explain the location of the city's CBD, high-quality housing, and poor-quality housing. | Map of Rio<br>de Janeiro                       |



### **PowerPoint Handouts**



### Lesson 7: Introducing Rio de Len re

Learning questing and a significance of lan i jay jatuation and connectivity?

Paracepuble/digital recurrences on orde he capitally the purchasing materials in a single site and for their own the

Edward Sci. 36 Employ: Challenges of an inhanising world

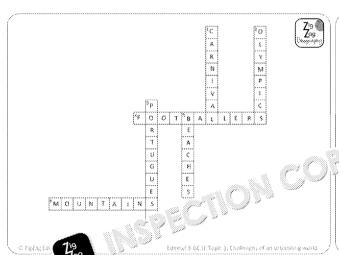
### 7.1 Starter

Across g. In 2014, the FIFA World Cup was lield in Rin. Who came to play?

er 6. Flig is built among these large rocky

 Rip is famous the world over for this flamboyent event, when people diance is the street and everyone joins in the party.

- This major international sporting event was held here in 2016.
- 3. Unlike the rest of South America. y, things one test to scott immer where Sponish is predominantly spoken, in Brazil they speak this longuage, beginning with P



### 7.2 Task

Find the location of the major city of Rio de Janeiro in your atlas (use the index or contents page to guide you).

(a) Compile a 'fact file' for the city by finding the following facts:

- Country and continent
  Latitude and tringitude
  Height above see level;
  Water bodies that form
  its coadfine
  The diffracts (use a
  claimate (use a)
  The cardial city of Brezil
  Latitude (use a)

- The distance from No de lan ine distance from No. de Isneiro to scale on the man and measure in kr The significant line of latitude that f

(b) Using your observations from the and (ii) situation.

C NgNeg Sisulation, 2017

You are going to play a game to identify the reasons why Rio de Janeiro is important to Brazil South America and the wiver world.

- (a) In pairs, cut out one set of true-and-fulse cards without reading them. Deal out the cards face
- (h) The first player should read out their first card without revealing whether the fact is true or faise.
- (c) The player must guess whether the fact about Rio de Janeire is true or take. If they are correct, they will the card, if they guess incorrectly then the first player keeps that card
- (d) Then the second player reads their first card and the first player guesses true or false and so on until all the cards have been played.
- (e) Count up how many you each correctly identified as true or false. The winner is the player with the most correct guesses
- (f) Make a record of the 9 facts that are true under the heading 'Reusons why Nio de Joneiro is of importance regionally, nationally and internationally' - you can just record the facts in hol ASS TORY DESIGNATION OF THE PARTY OF THE PAR

### 7.4 Plenary

Bio de laneiro is well connected to oti-Goods can be imported and exported if distributed from here to the rest of the 7.1: Site, situation and connectivity of R

- Identify four signs of the city's connectivity.
- Be ready to explain why its connectivity is important for the city and its influence nationally, regionally and globally



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### Task Sheet 7: Introducing Rio

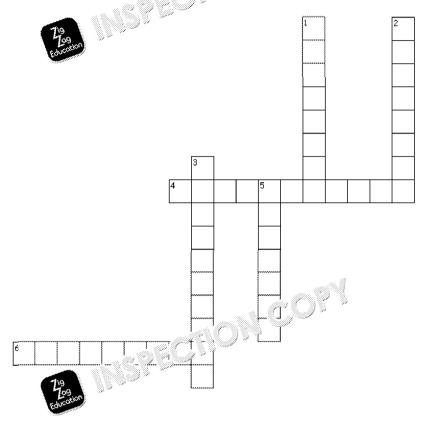


**Learning questions**: What is the significance of Rio de Janeiro's site, s

New key terms: site, situation, connectivity

### 7.1 Starter

Use your existing knowledge and a go graphical learning to identify the base



### 7.2 Task

Rio de Janeiro is a megacity in an emerging country. In 2016, the wider metropolitan area of the city was home to 12,981 people. Situated on the Atlantic coast and surrounded by steep granite mountains, the city was designated a World Heritage Site in 2012 in recognition of its natural beauty and cultural significance to the world.

- (a) Use an atlas to compile a 'fact file' for the megacity. Include the following facts:
  - (i) Country and continent
  - (ii) Latitude and longitude
  - (iii) Height above sea lev
  - (iv) Water bodie 1 1 0 ins coastline
  - (v) Jin , / La climate map)
  - (vi) pical city of Brazil
  - (vii) distance from Rio de Janeiro to the capital city use the scale on the map and measure in km
  - (viii) The significant line of latitude that Rio de Janeiro almost lies upon
  - (ix) The 10 countries that border Brazil



The landmark status Corcovado Mountus national park. From de Janeiro, Brazil.

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- (b) Using your observations from the photo and your fact file, describe Rio de Janeiro's:
  - site (i)
  - (ii) situation

Site: is the location of a sett the city has been built.

**Situation:** is the location of surrounding human and ph river, close to a motorway.

### 7.3 Task

You are going to play a game to identify the resolis your Rio de Janeiro is impa the wider world.

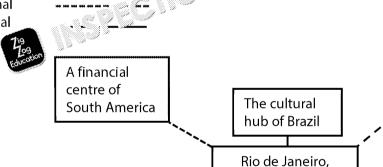
- (a) In pairs, cut out once the and-false cards without reading them. De
- (b) The fire place had read out their first card without revealing whether
- (c) The 1900 mast guess whether the fact about Rio de Janeiro is true or fa card every guess incorrectly then the first player keeps that card.
- (d) Then the second player reads their first card and the first player guesses cards have been played.
- (e) Count up how many you each correctly identified as true or false. The w correct guesses.
- (f) Make a record of the 11 facts that are true under the heading 'Reasons w regionally, nationally and internationally' – you can just record the facts

### -Extension 7.3.1------

Create your own diagram to show how Rio de Janeiro interacts with the of South America and the rest of the world. Below is an example to help own way of displaying the information.

### Key

International Regional National



### 7.4 Plenary

Rio de Janeiro is well connected to other places in the world. Goods can be imported and exported through the city and distributed from here to the rest of the country. Study Figure 7.1: Site, situation and connectivity of Rio de Janeiro.

- (a) Identify four signs of the city's connectivity
- (b) Be ready to explain why its connect, is important for the city and its influence nationally, rapinalize marglobally.

Exter Sugg

- (a) central business district (CBD)
- (b) most expensive apartments
- (c) favelas (poor-quality housing)

### ons linked to connectivity, site and situation for the location of

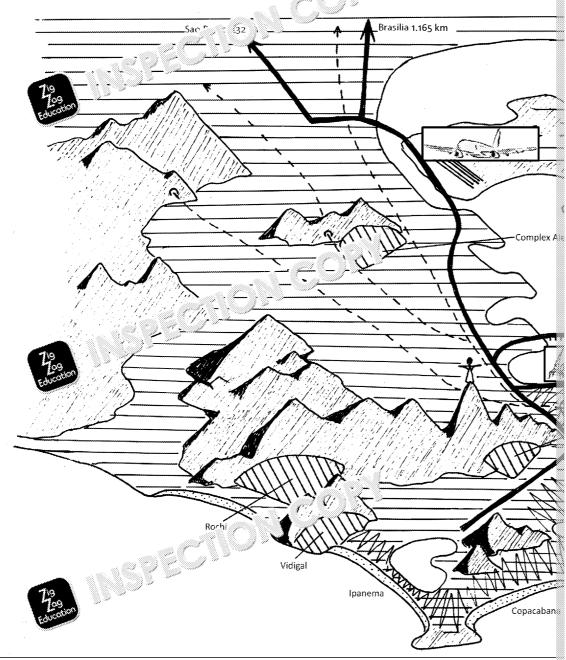
Brazil

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CIC

### Figure 10. . . ate, lituation and connectivity of Rio

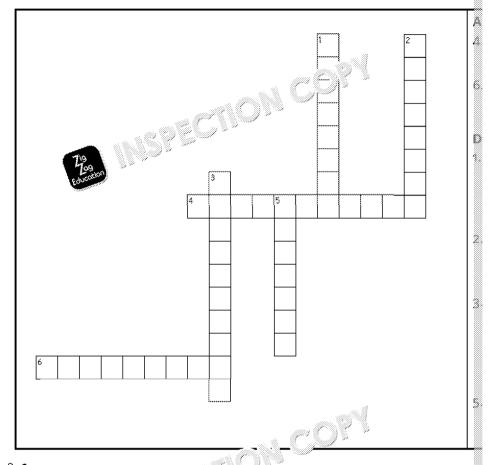


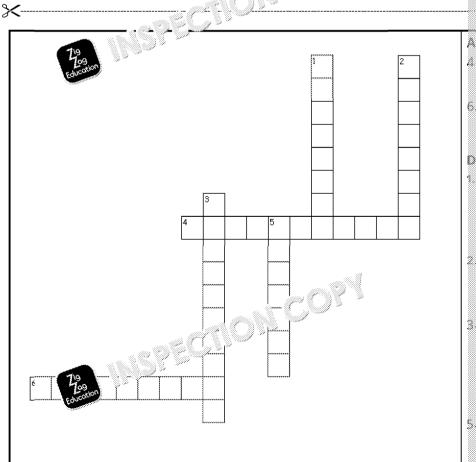
# $\overline{Z}$



### **Crossword (Starter 7.1)**

Make as many copies as students/2 – give one crossword to each student





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### True-and-false cards (Task 7.3)

Make as many copies as students/2 – give students one between two

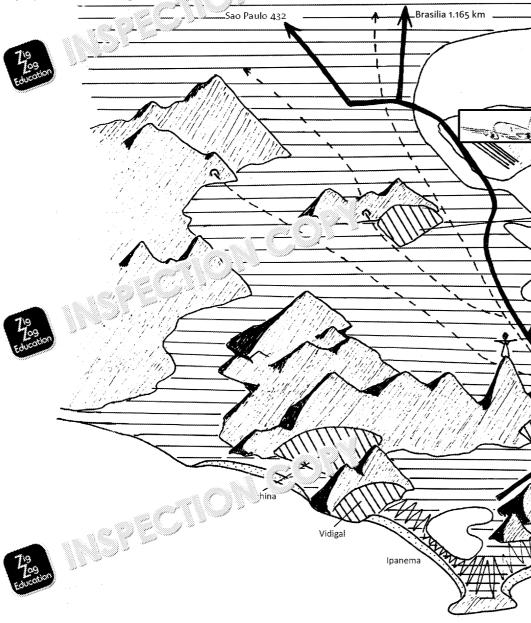
| Diama Purally and talentil 1000 and be a law  | Construction is                                    |
|---|--|
| <b>Rio was Brazil's capital until 1960</b> and has a long history of Portuguese rule. | Many unskilled wider region of                     |
| inistory of rortuguese rule.  | the ci   |
| ₹ TRUE  |  |
| Rio has a minimum noustrial sector supporting   | The city is of in                                  |
| a number of major manufacturing industries  | home of the head                                   |
| included occased foods, clothing and furniture,                                       | companies such a                                   |
| chemical, petroleum, pharmaceuticals and textiles.                                    | Vale (mining)                                      |
| TRUE  |  |
| With more than 50 museums, an annual carnival,  | Rio de Janeiro i                                   |
| modern architecture, historic monuments and a long                                    | mountain that attr                                 |
| history, Rio de Janeiro is thought of as the cultural                                 | a  |
| capital of Brazil.  |  |
| TRUE  |  |
| Rio de Janeiro's most important exports are feathers                                  | Rio de Janeiro is                                  |
| and shiny headbands. These are made for the   | two airports an                                    |
| annual carnival and then sold in vast quantities to buyers in Europe and Australia.   | and people to b                                    |
| buyers in Europe and Australia.   | region   |
| FALST   |  |
|   |  |
| Nicknam th our our city', <b>Rio de Janeiro is a</b>                                  | Rio de Janeiro is                                  |
| glob because it is a significant economic cultural hub in South America.              | and is of internation                              |
| Cartara nas in South America.   | 1005   |
| TRUE  |  |
| Rio is important because it is Brazil and South                                       |  |
| America's main tourist destination, attracting  | Hardly anybody v                                   |
| 2.82 million visitors from around the world each                                      | an   |
| year.   |  |
| TRUE  |  |
| Rio is the second largest city in Brazil after São                                    |  |
| Paulo. It had 6,476,600 people in 2015.   | Rio is the capital                                 |
| Surrounding the city is a metropolitan 2 0 5  | over 10 m  |
| 14,387,000 people   |  |
|   |  |
|   |  |
| P. S.   | Around 60% of                                      |
| Rio dero has a new and growing quaternary   | growing tertiary se<br>of jobs. <b>It is impor</b> |
| sector specialising in electronics and computing.                                     | its financial and                                  |
| TDUE  |  |
| TRUE  |  |
|   | i  |

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### ည်နာ of Rio de Janeiro (Task 7.4)

Make as many copies as students/2 – give students sine is een two



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### **Lesson 7: Answers**

### Abbreviation of Assessment Objectives (AO):

- 1. Knowledge
- 2. Understanding
- 3. Application of knowledge and understanding
- 4. Skills

### 7.1 Starter

### Across



6. mou.

### Down

- 1. Carnival
- 2. Olympics
- 3. Portuguese
- 5. beaches

### 7.2 Task

- AO1 (a) (i) Brazil and South America
  - (ii) 23° S and 43° W
  - (iii) o m
  - (iv) South Atlantic Ocean (it also sits on Guanabara Bay)
  - (v) Rainy tropical climate, constantly wet throughout the year, annual ra average temperature: above 24° C in January and 16–24° C in July
  - (vi) Brasilia
  - (vii) 1,166 km (+/- 100 km)
  - (viii) Tropic of Capricorn
  - (ix) Argentina, Bolivia, Colombia, French Guinne, Juliana, Paraguay, Peru
  - (b) (i) Rio de Janeiro is built on a control paris, between mountains and sea.
    - (ii) The city lies on Brazil's of the south Atlantic Ocean be south of Brazil's each on's capital.

### 7.3 Task

Nine true said indicated on the cards):

- Rio is the second largest city in Brazil after São Paulo. It had 6,476,600 people metropolitan area of 14,387,000 people. (N)
- Rio was Brazil's capital until 1960 and has a long history of Portuguese rule. (N)
- Nicknamed the 'Marvellous city', Rio de Janeiro is a global city because it is a significant significant.
- Construction is an important activity in the city. There are many unskilled work livelihoods. (N)
- Rio has a number of major manufacturing industries including processed foods petroleum, pharmaceuticals and textiles. It also has a new electronics and company
- Rio is important for its financial and service industries, second only to São Paulo headquarters of Petrobrás – the state oil company – and the National Economic
- With more than 50 museums, an annual carnival, modern architecture, historic
   Janeiro is thought of as the cultural capital of Brazil
- Rio is important because it is Brazil and South and Pri 3 3 main tourist destination around the world each year. (R & I)
- Rio de Janeiro is also a majo (2011) with two airports and five ports entransported in and any serion and across the world. (R & I)

Diagrams show connectivity of Rio de Janeiro at different scales: international America (Krand national (N). Indicated above with a capital letter.

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### 7.4 Plenary

Signs of the city's connectivity are represented by the airports, port, railways and road people in an out of the city and Brazil. Explanations should reflect on routes in and outpurpose learned about in the previous task.

### Extension 7.4.1

- (a) Identify transport links in the boxes on the map.
- (b) The most expensive apartments are located along the close to airport, railway, port, CBD.
- (c) The favelas are on the sides of mountain la. is difficult to develop and, there (build a house illegally).







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### **Lesson Overview 8: The structure**



Learning questions: What is the structure of Rio de Janeiro?

New key terms: central business district, inner city, suburbs, rural-urban f

Associated Task Sheet: 8 – pages 145 – 149 Associated PowerPoint file: Lesson 2 of ...

### 8.A Preparation

ICT – F. 8.2 of the lesson, you could connect to the Internet to show something the city:

https://www.nasa.gov/feature/goddard/2016/nasa-to-aid-disaster

Worksheets and resources for photocopying:

| For event | Description                     | Page(s) | Photocopies r    |
|-----------|---------------------------------|---------|------------------|
| 8.2       | Structure of land use model     | 150     | Number of studen |
| 8.4       | Urban function and building age | 151     | Number of studen |
| 8.4       | Structure of Rio de Janeiro     | 152     | Number of studen |

Other resources you may need to provide:

✓ Glue, stapler or hole punch to attach worksheets

### 8.B Individual student planning

Use this section to tailor vor lesson pran to individual students in your class.

|       | 79 '. /'(s)      | Detail of action |
|-------|------------------|------------------|
| G&T   | Edication        |                  |
| SEN   |                  |                  |
| EAL   |                  |                  |
| Other | 700<br>Ladroidos |                  |

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### 8.C Teaching and learning plan

| Suggested<br>time | Event                       | , tructions  | Student<br>workshee               |
|-------------------|-----------------------------|--|-----------------------------------|
| 10 mins           | 79<br>Feducation<br>Starter | Instruction for developing and emerging countries might be useful.  i. In strategy: develop student knowledge by referring students back to lesson 6, if this has been completed, or past learning from KS3.  Lead discussion of answers.  Learning outcome:  All: suggest a definition for a model based on current knowledge.  Most: understand what a land-use model does.  Some: suggest how a land-use model can be used.   |                                   |
| 15 mins           | 8.2<br>Task                 | Instruction to students: working in pairs, recreate the model of land-use structure in emerging and developing countries.  Teaching strategy: develop student understanding by helping students reinterpret the text on the model into their call, poss. Pick out keywords and explain, e.g. squatter squaller, permanent, quality, TNC, congregate, resource and squality, TNC, congregate, resource and squality and s | Structure of<br>land-use<br>model |
| 25 mins           | 8.3<br>Task                 | Instruction to students: working independently, answer the exam-style questions about the structure, pattern of spatial growth and urban function of Rio de Janeiro.  Teaching strategy: develop student understanding by talking students through the development of the city using the images and maps.  Concentrate on the difference in size, shape and spread of the urban area and how this relates to physical features of the name of the condition of the property of the property of the population, land use and connectivity of the population increase will for a soon of the condition of old and new buildings within the city.  All: known and the reasons why the city has grown as it has, why its urban function has changed and why buildings of different ages are found in different parts of the city.  Some: suggest a diagrammatic representation of land use in Rio de Janeiro.  |                                   |



| Suggested<br>time | Event                              | Ta : ( st. et )   | Student<br>workshee   |
|-------------------|------------------------------------|---|---|
| 10 mins           | 79<br>Februarion<br>8.4<br>Plenary | Instruction to studies: In a pairs, match the text and photographs and no photographs and key parts of the text. Students should use knowledge and understanding from tasks 8.2 and 8.3 to locate their annotations.  Learning outcome:  All: know examples of land use and corresponding age of buildings in different parts of Rio.  Most: understand why the age of buildings and land use is different in different parts of Rio. | Function as<br>building ag<br>worksheet<br>Land-use<br>map of Rio<br>de Janeiro |
|                   | 749<br>Education                   |   |   |

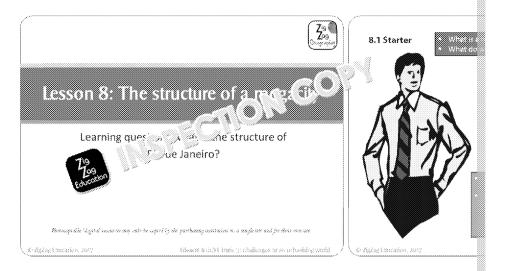




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### **PowerPoint Handouts**



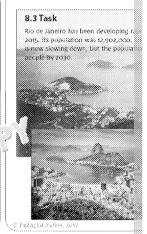
### 8.2 Task

(a) In pairs, create a model of the land-use structure of inegacities in emerging or developing countries:

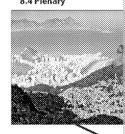
- t. First, toss a coin to decide who will describe (heads) and who will
- 2. Sit back to back so that you are not able to see each other.
- The describer will have a piece of paper with a diagram on it they
  must describe what they see using only their own words (do not just read out the labels on the diagram -- say what you understand).
- 4. The drawer will have a blank piece of paper and a pencil they must draw and make notes from what the describer describes.
- You can talk to each offier about what you are both seeing, but you must not reveal what you have in front of you until your teacher aske. you to stop and compare your land-use models.

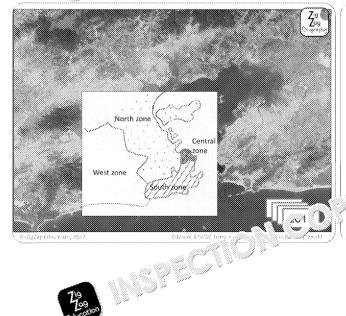
(a) took at the version of the model you have created accuracy. Dentity the parts you have spot or a law you'd regard wrong. Sketch the model into your book or folder—thy not to add amountations in your days.

Edward E-64.5E Topic 3: Chattenges of an urbanking world







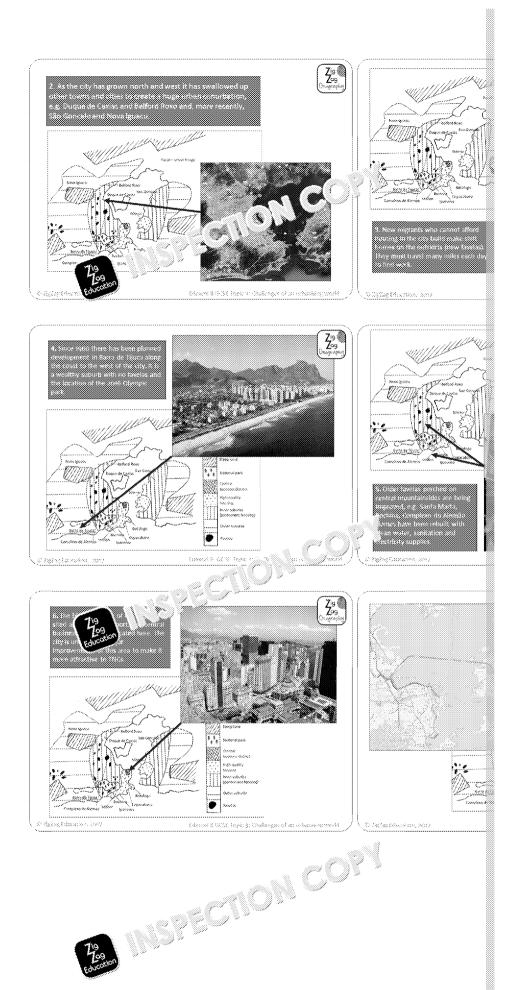




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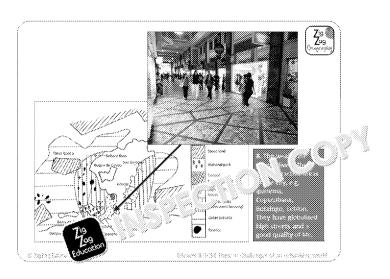


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### Task Sheet 8: The structure of a



Learning questions: What is the structure of Rio de Janeiro?

New key terms: central business district, inner city, suburbs, rural-urban f

### 8.1 Starter

Discuss with a partner and be real, 15th the class:

- 1. What is a model (thg : 👙 ໂຄງກິລາ kind!)?
- 2. What dawe we in elaror?

We use in geography to help us understand how processes work or how places are structured. As a class discuss:

- What does a land-use model do? and
- How could we use land-use models to help us understand the structure of cities in emerging and developing countries?

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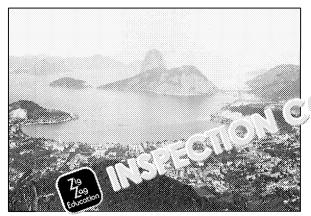
ot

### 8.2 Task

- (a) In pairs, create a model of the land-use structure of megacities in emerg
  - 1 First, toss a coin to decide who will describe (heads) and who will dr
  - 2 Sit back to back so that you are not able to see each other.
  - 3 The describer will have a piece of paper with a diagram on it they only their own words (do not just read out the labels on the diagram
  - The drawer will have a blank piece of paper and a pencil they must the describer describes.
  - You can talk to each other about when you both seeing, but you front of you until your teach you to stop and compare your lar
- (b) Look at the version for mover you have created together. Give it a man the particular to the pot on and where you have gone wrong. Sketch the not to a line original. Now, check and correct your work and add any

### 8.3 Task

Rio de Janeiro has been developing rapidly since 1950 (growth rate peaked at 2 was 12,902,000. Like many cities in emerging countries the rate of growth is 2 population is still expected to increase by another 1.27 million people by 2030 images, study the land-use maps from 1895 and 1929 and the satellite images exam-style questions below.



Rio de Janeiro 1889



(land has been

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### (a) At which location was Rio de Janeiro originally founded?

- On the southern coast of Brazil
- On the south-west coast of Guanabara Bay ii.
- iii. On the south-east coast of Guanabara Bay
- iv. On the northern coast of Guanabara Bay
- (b) In 1889, Rio de Janeiro became the capital of Brazilla gure 8.2 shows how this time. The core area of the future city was constead. Suggest what the likely to have been in 1895:
  - It was well connected with a sina, Brazil's capital.
  - ii. It was the real process escape invading French forces.
  - န ေ ႏွင့္က်ား ading port, situated in a natural harbour and protect iii. he Átlantic storms.
  - was a great place to go on holiday.
- (c) Study Figures 8.2 and 8.3. Describe the pattern of urban growth between
- (d) Using your existing knowledge (of why Rio de Janeiro is important), described city has changed since 1885.
- (e) Study Figures 8.3 and 8.4:
  - Describe the spatial change to the city between 1929 and 1984; and
  - suggest reasons for its rapid growth.
- (f) Suggest in which part of the modern city you would expect to find the fo answers. NGO?
  - The CBD i.
  - The oldest buildings
  - iii. The newest buildings
  - iv. Development fro. 2 (30-1570)
- 🅦 🚾 the city has been growing outside its dense central core. (g) In r 🕷 growth occurred in the inner suburbs and outer regions of th situated to the north and west of the city where the land is flatter. Using understanding, suggest both physical and economic reasons why the city

### 

As the population of Rio de Janeiro increased, development sprawled out and west of the central core, creating a large metropolitan area. Using the from this task, the model from task 8.2 and the map from lesson 7, constru use structure of Rio de Janeiro today. The best way to do this is to think a the historic core of 1895. Start with by identifying what this is used for too thinking about the city's spatial growth in chronological order.

Include these eight different areas in your ಗ್ರಹ್ಮ (an)

- The rural hinterland (r , an a serion of the influence of the city)
- Inner core are a managements, hotels
- per same so (within the original city boundary)
  - al-urban fringe
- outer suburbs (which have created the metropolitan area)
- Inner-city favelas where improvements have been made to housing called 'periferias'
- New squatter settlements (favelas on the outskirts of the city)

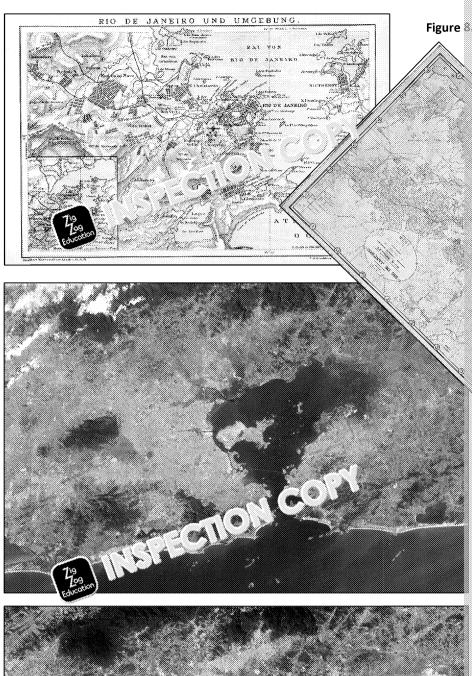
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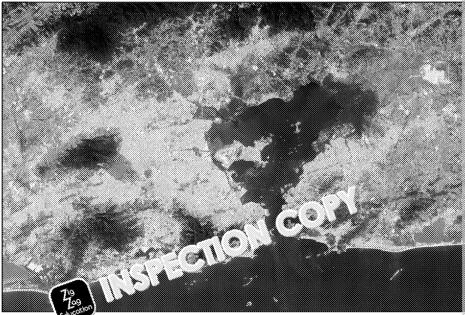


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If you have access to the Internet go to https://www.nasa.gov/f disaster-preparedness-in-rio-de-janeiro to be able to swipe between satellite images and see the city grow before your eyes!

### 8.4 Plenary

Working with a partner, study the sketch map of land use in Rio de Janeiro. Didescriptions of urban function and photos of Rio de Janeiro. Annotate your stand age of buildings featured in the text and image. Be ready to explain where

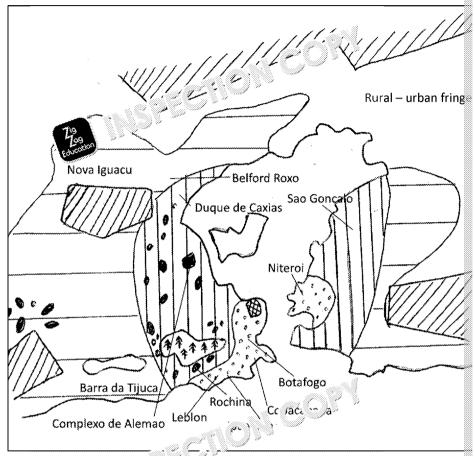


Figure 8.7: Sketch map of land use in Rio de Jan

- 1. Some areas of land are so steep that they cannot be developed. In the south of the city there are mountains covered in rainforest and designated a national park.
- 2. As the city has grown north and west it has swallowed up other towns and cities to create a huge urban conurbation, e.g. Duque de Caxias and Belford Roxo, and more recently São Goncalo and Nova Iguacu.
- 3. New migrants we cannot afford house the city build make homes on the outset (new favelas). They travel many miles aday to find work.

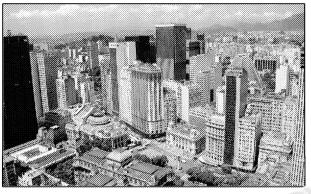
- on central mountainsides are being improved, e.g. Santa Marta, Rocinha, Complexo do Alemão. Homes have been with classification anitation de lectricity supplies.
- 6. The historic centre of the city is sited around the city port. The city is small ocases where the city is small or improvements of this area to make it more attractive to TNCs.
- 7. In 1974, a bridge between Rio de Jancity and Niterói on teast coast of Guana Bay opened. This hallowed the growth the metropolitan as Rio de Janeiro acros bay.

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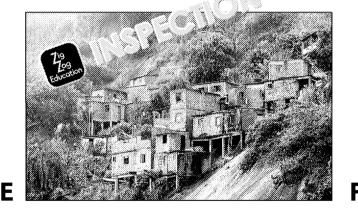


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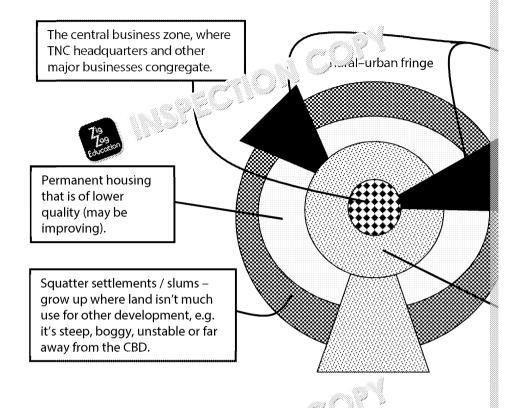






### Structure of land use model (Task 8.

Make as many copies as students/2 – give one diagram to each student



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Permanent housing that is of lower quality (may be improving).

Squatter settlements / slums – grow up where land isn't much use for other development, it's steep, boggy. Ur and o arraway from the steep of the ste

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### Function and building age (Task 8.4)

Make as many copies as students/2 – give students one between two

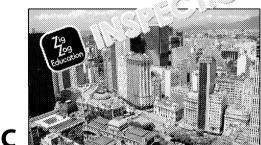
- 1. Some areas of land are so steep that they cannot be developed. In the south of the city there are mountains covered in rainforest and designated a national park.
- 2. As the city has grown north and west it has swallowed up other towns and cities to create a have urban conurbatic 4, é Dugue (e.g., 5 and erfc 'c 1,5%0, and more cently São Goncalo and Nova Iguacu.
- 3. New migrants wh cannot afford housing he city build make 🕏 nomes on the outsk (new favelas). They travel many miles ea to find work.

- central mountainsides are being improved, e.g. Santa Marta, Rocinha, Complexo do Alemão. Homes have been rebuilt with clean water, sanitation and electricity supplies.
- 6. The historic centre of the city is sited around the city port. The central business zone is still located here. The city is undergoing major improvements of this area to make it more attractive to TNCs.
- **7.** In 1974, a bridge between Rio de Jane and Niterói on the e coast of Guanabara opened. This has all the growth of the metropolitan area of Janeiro across the ba







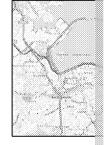
















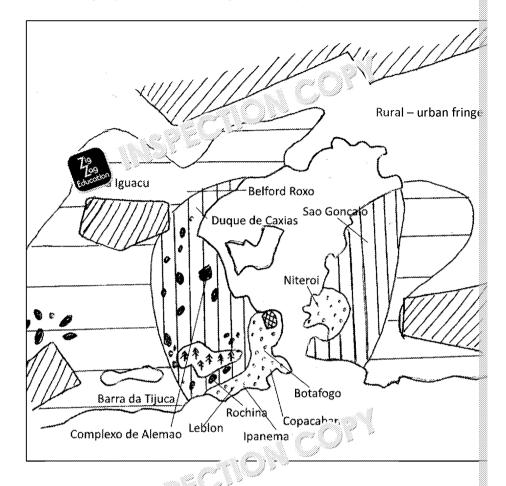


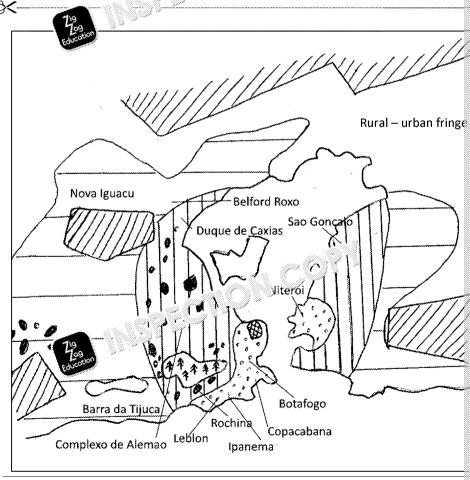
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### Structure of Rio de Janeiro (Task 8.4)

Make as many copies as students/2 – give one map to each student





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### **Lesson 8: Answers**

### Abbreviation of Assessment Objectives (AO):

- 1. Knowledge
- 2. Understanding
- 3. Application of knowledge and understanding
- 4. Skills

### 8.1 Starter

This is a free-thinking of the last is an open discussion so there are no right or wrong know when the last model, specifically a land-use model, is and is used for by the processes of the processes of the last model.

Land-use model – suggestions (the class may come up with more):

- The model tells us what land use we might expect to see in a city and how it is a map or exact representation of any particular place.
- It can be used to help us understand how the city grows and changes over time

### 8.2 Task

AO1 and AO2

The correct model is that provided on the worksheet.

### 8.3 Task

| Question | AO  | Answer  |  |
|----------|-----|---|--|
| (a)      | AO1 | (ii) On the south-west coast of Cuse be a Bay   |  |
| (b)      | AO2 | (iii) It was a major trading fort affacted in a natural harbour Atlantic stores   |  |
| (c) 74   | 10  | Cred: rk  |  |
| (d)      | AO2 | Credit 1 mark for recognition of the change. For example: In 1885, the city was a major trading port. Today it is still a maports and two airports) but also has other functions  Credit 1 mark for recognition of any one of the functions of the Plays a key role in Brazil's economy, attracting migrants for various manufacturing industries that are located there A regional and international tourist destination A specialist hub for electronics and computing in the regionally significant finance and service industries |  |
| (e)(i)   | AO2 | Credit 1 mark for each observation up to a maximum of two. F  The density of development has increased  The city has expanded to the notion individual west between the bay  Islands have have become a cross the flat plains to the notion along the coastline to the west of the city expansion and increased density of development on the   |  |
| (e)(ii)  | AO2 | <ul> <li>Credit any two reasons. For example:</li> <li>Migration from rural areas due to poor conditions. These natural disaster, poor standard of living, disease, lack of Migration to the city as people are attracted to jobs in moof living, better housing, availability of education and head</li> </ul>   |  |

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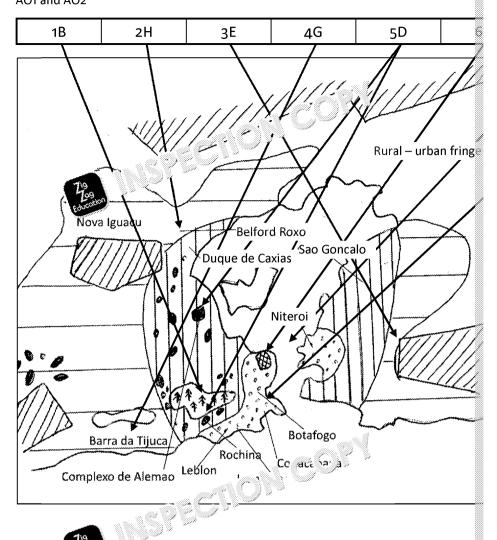


| major transport hubs (railway and airport) are. It was als of the city.  ii. In the south-east of the city iii. On the outskirts of t'e ty iii. e north and west – althoureplace old ir a iii. It buildings in the CBD. This is when och ing.  All area between the south-east older core and the nowhere the city can be seen to have grown between the 19 image.  Credit 1 mark for each idea and 1 mark for an explanation – she economic and one physical.  Must make links to past knowledge and understanding. For expending the composition of land – people want to be closer in so developers infill wherever in Land on outskirts of the city is undeveloped, which mean therefore, cheaper to build on.  (g)  AO3  Physical factors such as steep mountain sides mean developed the mountain range.  Lessons 4 and 5 urban economy and population change:  Migrants arriving in the city can't afford to live in the expendid homes in less expensive area in the outskirts of the people are still attracted in the city continues to grow.  This is a dir and could be accurate for Rio de Janeiro. All area in so we be included on the diagram – use the sketch in a rison of accuracy.   |               |  |
|--|---------------|--|
| i. South-east of the city where the city was originally locates major transport hubs (railway and airport) are. It was als of the city.  ii. In the south-east of the city to city was originally, iii. On the outskirts of the city to city was originally, iii. On the outskirts of the city to contain and west – althout replace old for the city to buildings in the CBD. This is when one of the city can be seen to have grown between the 19 image.  Credit 1 mark for each idea and 1 mark for an explanation – she economic and one physical.  Must make links to past knowledge and understanding. For expension of land use:  Increase in density of suburbs due to demand for land – people want to be closer in so developers infill wherever:  Land on outskirts of the city is undeveloped, which mean therefore, cheaper to build on.  Physical factors such as steep mountain sides mean devel land – as these areas are developed, new development is beyond the mountain range.  Lessons 4 and 5 urban economy and population change:  Migrants arriving in the city can't afford to live in the expensive arm in the outskirts of the population is still in the city can't afford to live in the expensive arm in the outskirts of the city are city continues to grow.  This is a dimensional better of population is still in the city of the city continues to grow.  This is a dimensional better of population is still in the city of the city continues to grow.  This is a dimensional better of the city of the city continues to grow.  This is a dimensional better of the city continues to grow.  This is a dimensional better of the city continues to grow.  This is a dimensional better of the city continues to grow.  The city of the city continues to grow.  This is a dimensional better of the city continues to grow.  The city of the city continues to grow. |               |  |
| economic and one physical.  Must make links to past knowledge and understanding. For extension land use:  Increase in density of suburbs due to demand for land people want to be closer in so developers infill wherever in Land on outskirts of the city is undeveloped, which mean therefore, cheaper to build on.  Physical factors such as steep mountain sides mean developed the mountain range.  Lessons 4 and 5 urban economy and population change:  Migrants arriving in the city can't afford to live in the expensive arrown the outskirts of the people are still attracted in the city continues to grow.  This is a dimagnation of accurate for Rio de Janeiro. All arriving in the diagram – use the sketch in the city can't afford to see included on the diagram – use the sketch in the city can't afford to be included on the diagram – use the sketch in the city can't afford to be included on the diagram – use the sketch in the city can't afford to be included on the diagram – use the sketch in the city can't afford to be included on the diagram – use the sketch in the city can't afford to be included on the diagram – use the sketch in the city can't afford to be included on the diagram – use the sketch in the city can't afford to be included on the diagram – use the sketch in the city can't afford to be included on the diagram – use the sketch in the city can't afford to be accurate for Rio de Janeiro. All diagram – use the sketch in the city can't afford to be accurate for Rio de Janeiro.   | (f) AO2       | <ul> <li>i. South-east of the city where the city was originally located major transport hubs (railway and airport) are. It was also of the city.</li> <li>ii. In the south-east of the city to city was originally file. On the outskirts of t'e ty to enorth and west – althour replace old transport to buildings in the CBD. This is when occurring.</li> <li>iii. On the outskirts of t'e ty to enorth and west – althour replace old transport to buildings in the CBD. This is when occurring.</li> <li>iii. On the outskirts of t'e ty to enorth and west – althour replace old transport to buildings in the CBD. This is when occurring.</li> <li>iii. On the outskirts of t'e ty to enorth and west – althour replace old transport to buildings in the CBD. This is when occurring.</li> <li>iii. On the outskirts of t'e ty to enorth and west – althour replace old transport to buildings in the CBD. This is when occurring.</li> <li>iii. On the outskirts of t'e ty to enorth and west – althour replace old transport to buildings in the CBD. This is when occurring.</li> <li>iii. On the outskirts of t'e ty to enorth and west – althour replace old transport to buildings in the CBD. This is when occurring.</li> <li>iii. On the outskirts of t'e ty to enorth and west – althour replace old transport to buildings in the CBD. This is when occurring.</li> </ul> |
| Extension AO3  Extension AO3  Rural – urban fringe  Duque de Caxias Sao Gonco 6  Niteroi  Niteroi  Barra da Tijuca  A him supacabana   | (g) AO3       | <ul> <li>Must make links to past knowledge and understanding. For excession 6 land use:</li> <li>Increase in density of suburbs due to demand for land – to people want to be closer in so developers infill wherever to Land on outskirts of the city is undeveloped, which mean therefore, cheaper to build on.</li> <li>Physical factors such as steep mountain sides mean develand – as these areas are developed, new development is beyond the mountain range.</li> <li>Lessons 4 and 5 urban economy and population change:</li> <li>Migrants arriving in the city can't afford to live in the expendid homes in less expensive area. In the outskirts of the People are still attracted to the city can't jobs and better questions.</li> </ul>  |
|  | Extension AO3 | Rural – urban fringe  Nova iguacu  Belford Roxo  Duque de Caxias Sao Gonçalo  Niteroi  Barra da Tijuca  a nins opacabana   |

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### **8.4 Task** AO1 and AO2



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### Lesson 9 Overview: Population growth



Learning questions: How and why has the population of Rio de Janeir

New key terms: natural increase, economic investment growth

Associated Task Sheet: 9 – pages 162 – 165 Associated PowerPoint file: Lesser 28 of 2

9.A Preparation

Worksh dissources for photocopying:

| For<br>event | Description                                  | Page(s) | Photocopies i    |
|--------------|--|---------|------------------|
| 9.4          | Past and present trends in population growth | 166     | Number of studen |

Other resources you may need to provide:

✓ Glue, stapler or hole punch to attach worksheets

### 9.B Individual student planning

Use this section to tailor your lesson plan to individual students in your class.

|       | Student(s)   | Detail of action |
|-------|--|------------------|
| G&T   |  |                  |
| SEN   | Education  |                  |
| EAL   |  |                  |
| Other | 74 de de la constante de la co |                  |

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### 9.C Teaching and learning plan

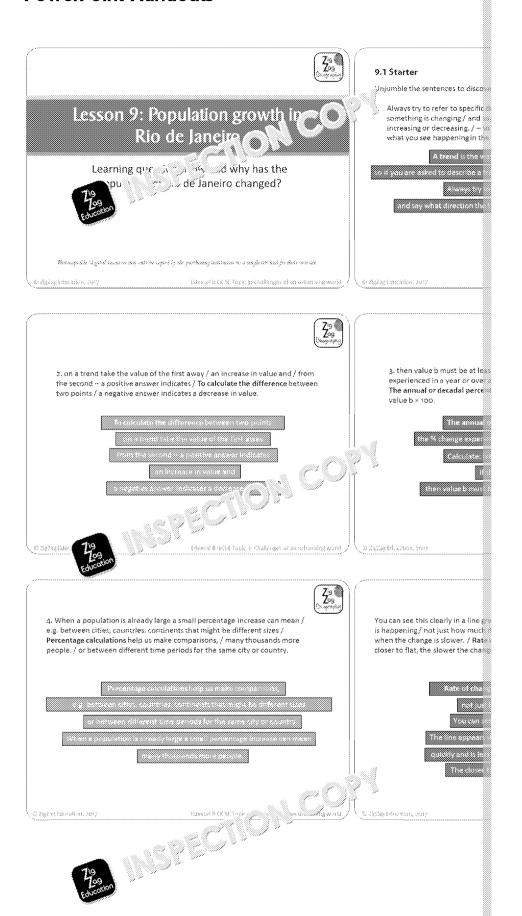
| Suggested<br>time | Event   | T: ): n.structions   | Student<br>workshee |
|-------------------|---|--|---------------------|
| 10 mins           | 79<br>709<br>Education<br>9.1<br>Starter  | Instruction in the sentences to working in pairs, unjumble the sentences to working in geography.  Image strategy: develop student knowledge by reiterating the meaning and purpose of key concepts: trend, difference, annual and decadal % change, percentage calculations, rate of change.  Learning outcome:  All: have an accurate record of how to read graphs.  Most: can identify the correct methods needed to calculate different measurements from graphs.  Some: understand the different purposes and methods used to find different measurements from graphs.  |                     |
| 15 mins           | 9.2<br>7.9<br>7.09<br>Education   | Instruction to students: working independently, use the graph showing population change in Rio de Janeiro from 10000 to answer the questions.  Teaching strategy: develor sky of referring students to the methodologies the starter activity. Lead class discussion for the starter activity. Lead class discussion for the starter activity. Lead class discussion for the graph to describe and calculate trends in population growth in Rio de Janeiro.  Most: know how the population has changed since 1650 and how growth varied across significant time periods.  Some: predict future growth of the population based on previous knowledge and understanding of development and urban growth. |                     |
| 10 mins           | Instruction to students: working independently, identify causes of natural increase in urban areas.  Teaching strategy: lead class discussion of ansy did develop student understanding by relating differences in ingrease developing, emerging and developing and developing, emerging and developing discussion of ansy did develop student understanding by relating differences in ingrease occurs.  9.3 Task  All: kn |  |                     |



| Suggested<br>time | Event          | Task instructions   | Student<br>worksheets                         | PP7<br>slid |
|-------------------|----------------|---|---|-------------|
| 15 mins           | 9.4<br>Task    | Instruction to students: working in pairs and then independently, sort the reasons for increasing population into the correct time period, and indicate which relate to national migration, international increase and indicate which relate to national migration, international increase and indicate which relate to national migration, international increase how population increase will have affected the time with of the city.  Teaching strategy: develop student and indicate to people moving students to consider with a fine descriptions relate to people moving within or into E is a sun of government policy and TNC in the same economic investment and creating growth—or large increase. Develop student application by asking questions the city (lesson 8), e.g. how did the city change as a result of this?  Learning outcome:  All: know the reasons why population grew during time periods: colonial, postcolonial, industrialisation, post-industrialisation.  Most: understand the reasons for the different growth rate of the population during each time period.  Some: make links to the spatial growth of the city. | Past and present trends in population growth. | 11 —        |
| 10 mins           | 9.5<br>Plenary | Instruction to students: listen to your teacher read Sophic', y. Indicate that you understand the concept of push you ctos – use the method outlined in the task or create yor o in your dasa class.  Teaching strategy: develop studenty in a ding by asking students why they have stood up your edite was in the air or put their arms on their hips. Lead a ding have a stowhether soph show move to the city. Ask students to say why they the decisions.  Outcome:  Alternow what push and pull factors are.  Most: can give examples of push and pull factors affecting people migrating to Rio de Janeiro from rural Brazil.  Some: can explain what the pressures or opportunities are creating the push and pull factors.   |   | 14          |
|                   |                |   |   |             |

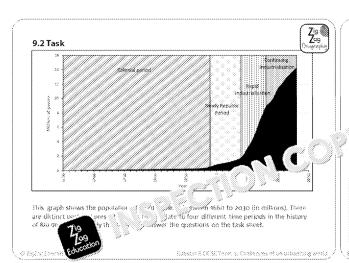


### **PowerPoint Handouts**



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(a) Name the time period when the pos-

(b) Name the time period which had to

Calculate the rate of change of the 📵 1890 and 1940 (when the popul

(ii) 1940 and 1980 (when the papul

Ouring the <u>colonial period</u> the pop around half a million in 1880, Duri increased and the city tripled its pill the city was transformed by rapid million. This was a period of rapid a slightly slower rate as industrialis period), becoming a megacity in ti

80 MgMag Education, 2017

### 9.3 Task

While migration has had a major impact on the population of Ilio de Lanetro, some population increase will be due to more people being born within the city than dying there—this is called **natural increase**. There are a number of reasons why this might happen—usually it. is because the birth rate is increasing and/or the death rate is decreasing.

improved health services bring better antenatal care for pregnant women. More babies are likely to be born healthu

Women but off having driidren because they wish to pursue Caneers, so they are likely to have fewer children.

Acress to dean water reduces dysentery.

There are fewer old people in More young adults (18-35) in the population means more people starting families. the population so fewer people are dying.

Contraception is widely available, preventing unwarsted pregnansies

ali Yigirag Dabbahan kac

ikely.

Z<sub>9</sub>

ons that explain past and present trends in Rio de Janeiro'

like the one below and sort the reasons into the correct time periods.

- a key to highlight reasons that relate to:
  - national migration international regration
  - economic investment and growth natural increase

| Colonial period<br>(1568 to 1889) | Newly republic period<br>(1890–1940) | Rapid industrialisation<br>(1940–1980s) | Continuing<br>industrialisation<br>(1980 to present day) |
|-----------------------------------|--------------------------------------|---|--|
|                                   |                                      |   |  |
|                                   |                                      |   |  |

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### Colonial period (1568 to 1889)

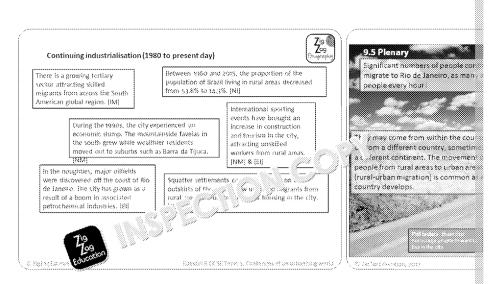
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### Task Sheet 9: Population growth in



**Learning questions**: How and why has the population of Rio de Janeir

New key terms: natural increase, economic investment, growth

### 9.1 Starter

Unjumble the sentences to discount for the present of the sentences to discount for the sentence to discount for the sentences to discount for the sentences

- 1. Always try to refer to see forms data points / A trend is the way in which see directions the country going, e.g. increasing or decreasing. / so if you are what the period is the data.
- on a trend take the value of the first away / an increase in value and / from indicates / To calculate the difference between two points / a negative as
- 3. then value b must be at least double the value of value a. / the % change year period. / If the answer is over 100% / **The annual or decadal percent** value a) ÷ value b × 100.
- 4. When a population is already large a small percentage increase can mean continents that might be different sizes / **Percentage calculations** help us thousands more people. / When a city is small a small percentage increase time periods for the same city or country. / mean only a small increase in
- 5. You can see this clearly in a line graph. / The line appears steeper when it is changing. / quickly and is less steep when the change is slower. / Rat change / The closer to flat the slower the change.

### 9.2 Task

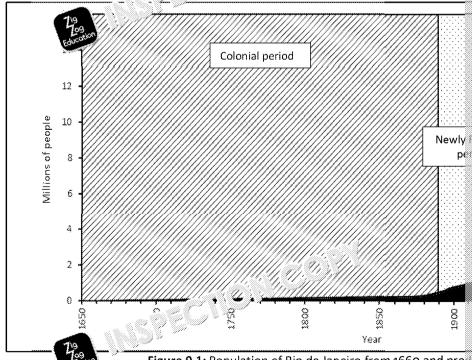


Figure 9.1: Population of Rio de Janeiro from 1660 and pre

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Figure 9.1 shows the population of Rio de Janeiro 1660 to 2030 (in millions). Trends across four different time periods. Study the graph and answer the que

- (a) Name the time period when the population increased most rapidly.
- (b) Name the time period which had the slowest rate of population increase
- (c) Calculate the rate of change of the city's population over the following time
  - (i) 1890 and 1940 (when the population ₩3/5/300) and 1,764,000 pe
  - (ii) 1940 and 1980 (when the population, wis 1,764,000 and 8,784,000 p

### Extension 9.2.1

Describe e Rio de Janeiro's population from 1650 to the presensigning arrods in the city's history and when it became a megacity.

- ✓ wer to dates and name of each time period.
- ✓ Refer to the trend in population growth (i.e. increasing or decreasin
- ✓ Quote data from Figure 9.1.
- ✓ Note the point at which the city became a megacity.

### -Extension 9.2.2-----

Using your knowledge and understanding from previous lessons, predict at the population of the city to change in future, within the next:

- (i) decade
- (ii) 50 years
- (iii) century

### 9.3 Task

While migration has had a major imple. The population of Rio de Janeiro, so to more people being born within the way than dying there — this is called **nat** of reasons why this within the pen — usually it is because the birth rate is increased decreased.

| Birth rate = no. of births in a year $\times$ 1000 | Death rate = |
|--|--------------|
| Total population                                   | Death rate = |

Choose the correct reasons from the table below to explain:

- (a) why the number of births within a city could increase (2 reasons); and
- (b) why the number of deaths within a city could decrease (2 reasons).

| Improved health services bring better antenatal care for pregnant women. More babies are likely to be born healthy. | Women put off having children because the wish to pursue careers so they are likely to have less children. |
|---|--|
| There are fewer old people in the population so fewer people are dying.   | Mລາງ ກ່ອງ adults (18–35) in the<br>ເມື່ອdation means more people<br>starting families.                     |

In 2016, the estimated birth rate of Rio de Janeiro was 4.3 births/1,000 population. Calculate the natural increase reasons for this result. (http://www.indexmundi.com/brazil/demographic

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### 9.4 Task

- (a) There have been many reasons for past and present trends in Rio de Jan
  - (i) Make a table like the one below and sort the reasons into the corre
  - (ii) Use a key to highlight reasons that relate to: national migration, interior investment and growth, and natural increase.

| Colonial period<br>(1568 to 1889) | Newly republic 2 10 (199 9.2) | Rapid industrialis<br>(1940–1980s |
|-----------------------------------|-------------------------------|-----------------------------------|
| F. 1157                           |                               |                                   |
| Round                             |                               |                                   |
| ^^^^                              |                               |                                   |

During the 1950s, squatter villages began to develop in areas of the city that were difficult to develop, e.g. mountainsides. During the 1950s, transnational companies (TNCs) were keen to exploit the natural resources of the country. The government new republic of were keen to a industry to their city and encogrowth.

In the 1700s, migra came from Line of fc liamonds d gold. rural poor have moved to Rio de Janeiro because industrialisation created job opportunities. Squatter settles continue to grow outskirts of the conew unskilled marked unable to affit housing in the

Between 1960 and 2015, the proportion of the population of Brazil living in rural areas decreased from 53.8% to 14.3%. In the noughties, major oilfields were discovered off the coast of Rio de Janeiro. The city has grown as a result of a boom in associated petrochemical industries.

Increasing for insecurity, land and natural has have forced the poor to aband countryside in numbers

There is a growing tertiary sector attracting skilled migrants from across the book of the section of the secti

ງ ၄ Sbal region.

International space and events have proposed than the city, attracting unskilled workers from rural areas.

In the 1960s, of oil and gas field built and industrial development adesignated around edge of the

(b) For each time period write a paragraph to summarise how the population growth of the city. Refer to national migration, investment and growth.

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### 9.5 Plenary

Significant numbers of people continue to migrate to Rio de Janeiro, as many as 10 people every hour! People move to towns and cities for different reasons depending on their personal circumstances and where they come from. Some will arrive from other towns and cities, some from villages and rural areas. They may come from within the country or from a different pointry, sometimes a different continent. The movem of free ple from

Push fas people so move to

Pull fact people

rural areas to urban areas (rural—urban and some population mean that some population mean that

Listen to your teacher read Sophia's story. When you hear a reason why Soph put your arms in the air if it sounds like a push factor, put your hands on your

Now read Sophia's story again, to yourself. What do you believe that Sophia for your answer.

Sophia Silva lives in the Mirante region of NE Brazil. She dreams of a better life for her four children where they can go to school, she has enough money to buy them books and they don't have to struggle to afford food. It is hot and dry where she lives, not much grows and there is little water. She wonders if life would be better in a city, maybe Salvador (200 km) or Rio de Janeiro (600 km). She knows that life in Rio would not be perfect. She has heard stories to it migrant families who have been discrimin the spainst and she has no education or training has a series of the same stories.



Her husband Miguel is a span de Janeiro, but he has only been able stay. The very crowded. It is a shanty town built on the side have must be make houses out of concrete and are connected to with the city cleaning and selling on the streets. There are give her a job. She is honest and willing to work hard but Rio has a low her children would get caught up with drugs and gangs.

In Mirante life is very difficult. There has not been any rain now for estarting to say there will be a drought. Sophia believes that the weat mother and brother have both died in the last six months. She could nearest hospital is over 200 miles away. She worries what she will do is her home. She has lived here all her life and her parents and their Should she leave and take her children to Rio de Janeiro?



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### Past and present trends in population growt

Make as many copies as students/2 – give one set to each student

During the 1950s, squatter During the 1950s, The government of the transnational companies villages began to develop republic of Brazil we in areas of the city that (TNCs) were keen to exclusion to attract industry to were difficult to develop, the natural resouces fine capital city and enc e.g. mountainsides. Squatter settlem Many rural poor have continue to grow @ moved to Rio de Janeiro outskirts of the city ope looking because industrialisation unskilled migrants for diamonds and gold. created job opportunities. rural areas are una afford housing in the In the noughties, major Increasing food inse Between 1960 and 2015. oilfields were discovered off land reform and n the proportion of the the coast of Rio de Janeiro. hazards have forc€ population of Brazil living in The city has grown as a rural poor to aband rural areas decreased from result of a boom in countryside in la 53.8% to 14.3%. associated petrochemical industries. International sporting

There is a growing tertiary sector attracting skilled migrants from across the South American global region.

events have brought an increase in construction and tourism in the city, attracting unskilled w from rural a éas

In the 1960s, offsh and gas fields were and industrial develo zones designated a the edge of the

numbers.

growth.

0s. squatter villages began to develop in areas of the city that were difficult to develop, e.g. mountainsides.

During the 1950s, transnational companies (TNCs) were keen to exploit the natural resources of the country.

The government of the republic of Brazil we to attract industry to capital city and enc growth.

In the 1700s, migrants came from Europe looking for diamonds and gold.

Many rural poor have moved to Rio de Janeiro because industrialisation created job opportunities.

Squatter settlem continue to grow @ outskirts of the city unskilled migrants rural areas are una afford housing in the

Between 1960 and 2015, the proportion of the population of Brazil living in rural areas decreased from 53.8% to 14.3%

In the noughties, major oilfields were discoverable. the coast of Rio ද් වුන් ල් න The cay around as a ⊘ິຣ ນີ∴∂f á boom in sociated petrochemical industries.

Increasing food inse land reform and n hazards have force rural poor to aband countryside in la numbers.

wing tertiary sector attracting skilled migrants from across the South American global region.

International sporting events have brought an increase in construction and tourism in the city, attracting unskilled workers from rural areas.

In the 1960s, offsho and gas fields were and industrial devel zones designated a the edge of the



### **Lesson 9: Answers**

### Abbreviation of Assessment Objectives (AO):

- Knowledge
- 2. Understanding
- Application of knowledge and understanding 3.
- 4.

### 9.1 Starter

- 1. A trend is the value of comething is changing / so if you are asked to describe n t လူ့နေအ. / Always try to refer to specific data points /and say what
- 2. To calculate the difference between two points / on a trend take the value of the positive answer indicates / an increase in value and / a negative answer indicate
- 3. The annual or decadal percentage change is / the % change experienced in a yea (value b – value a)  $\div$  value b × 100. / If the answer is over 100% / then value b mu
- 4. Percentage calculations help us make comparisons, e.g. between cities, countries sizes / or between different time periods for the same city or country. / When a percentage increase can mean / many thousands more people. / When a city is / mean only a small increase in the actual size of the population.
- 5. Rate of change tells us the speed of change / not just how much it is changing. / The line appears steeper when change is happening / quickly and is less steep 🐙 to flat, the slower the change.

### 9.2 Task

| <b>9.2 Task</b> For self-assessment |                 |  |   |
|-------------------------------------|-----------------|--|---|
| Question                            | AO              |  | Answer  |
| (a)                                 | 9. 74<br>20. 74 | Jindustrialisation   |   |
| (b) Ed                              | ication 4       | Colonial period  |   |
| (c)                                 | AO4             | (i) (1,764,000 - 523,000)/50 = growin<br>(ii) (8,784,000 - 1,764,000)/40 = grov  |   |
| Extension<br>9.2.1                  | AO2             | For each time period:  1 mark for reference to dates and name  1 mark for reference to direction of trend  1 mark for reference to data from Figure  1 mark for recognition of correct time per  Example:  During the colonial period the population around half a million in 1890. During the and the city tripled its population in the was transformed by rapid population was a period of rapid industry misc in a slower rate as induced in the 1990s who | d 19.1 Period at which the city being a grew slowly from less to newly republic period 50 years to 1,764,000. The population in the since 1980 growth has cinued (continuing indus) |
| C                                   | 73 V            |  |   |



### NSPECTION COF



### 9.2 Task (continued)

| Question           | AO  | Answer   |
|--------------------|-----|--|
| Extension<br>9.2.2 | AO3 | Based on knowledge and understanding from previous lessons, (lesson 2), why cities are changing (lesson 3). No right or wrong marks for reasoning (maximum of two continue period). For example, and the continuation of rural and artifum and evolution of secontinuation of rural and artifum and evolution of secontinuation of rural and artifum and evolution of secontinuation of rural artifum and evolution of secontinuation of rural artifum and evolution of secontinuation of rural artifum and evolution of secontinuation of secontinuat |

### 9.3 Task

- (a) Births increase:
  - More young adults (18–35) in the population means more people starting f
  - Improved health services bring better antenatal care for pregnant women.
- (b) Deaths decrease:
  - There are fewer old people in the population so fewer people are dying.
  - Access to clean water reduces outbreaks of cholera and dysentery.

### Extension 9.3.1

Could recognise and explain any/all of the following:

- Birth rate is a change over time, not a definitive number it is a reduction of the high numbers.
- There is no mention of death rates; if these are death and shen overall population
- If the number of births still exceeds the punk ir collimaths, then the population

### 9.4 Task

(a) AO2 Credit 1 mark (1.2) ect statement and 1 mark for each correct label: [NM<sup>1</sup>] na ... (IM) international migration, [EI] economic investment

| Cd (discolar) period (1568 to 1889)   | Newly republic period<br>(1890–1940)  | Rapid industrialis<br>(1940–1980s)  |
|---|---|---|
| Around 1660, there were about 8,000 people in the city, mostly slaves brought from Africa to work in the sugar plantations. [IM]  In the 1700s, migrants came | The government of the new republic of Brazil were keen to attract industry to their capital city and encourage growth. [EI] | Increasing food insection land reform and natural hazards forced the ruppor to abandon the countryside in large numbers. [NM] |
| from Europe looking for diamonds and gold. [IM]   |   | Many rural poor have<br>to Rio de Janeiro beca<br>industrialisation creas<br>opportunities. [EI] &                            |
| 7.0   |   | government lost cont<br>the city's growth. Mis<br>arrived in such numb<br>the city authorities con<br>house them. [NM]        |
| Education   |   | During the 1950s, squarillages began to devareas of the city that will difficult to develop, earnountainsides. [NM]           |

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|   |   | In the 1960s, offshore oil and gas fields were built and industrial development zones designated around the edge of the city. [EI] | moved out to suburbs such as Barra da Tijuca. [NM] In the noughties, major oilfields were discovered off the coast of Rio de Janeiro.  |
|---|---|--|--|
|   |   | During the 1950s,<br>transnational companies<br>(TNCs) were keen to exploit  | The city has grown as a result of a boom in associated petrochemical   |
|   |   | the natural resources of the country. [EI]   | industries. [EI] International sporting events   |
|   |   | Since 1974, the population of rural Brazil has decreased from 42.5 million to 29.7   | have brought an increase in construction and tourist the city, attracting the city att |
| 3 | 3 | million. [NI]  | workers in areas.  |

(b) Paragraphs should summarise the content of the table, include the key terms 'national migration', 'international migration', 'economic investment and growth' and 'natural increase', and may quote data from Figure 9.1. Credit 3 marks for first two paragraphs and 5 for second two. 16 marks

### 9.5 Plenary

| Sophia's story   | Commentary   | Push or Pull<br>factors |
|--|--|-------------------------|
| Sophia Silva lives in the Mirante region of NE Brazil. She dreams of a better life for her four children where they can  |  |                         |
| go to school, she has enough money to buy them books and they don't have to struggle to afford food.   | Sets out what she wants –<br>no reference to city or<br>village  |                         |
| It is hot and dry where she lives, not much grows and there is little water.   | Poor environmental conditions in the village   | Push                    |
| She wonders if life would be better in a city, maybe Salvador (200 km) or Rio de Janeiro (600 km). She knows that life in Rio would not be perfect. She has heard stories about migrant families who have been discriminated against and she has no education or training herself. Her husband Miguel lives in Rio de Janeiro, but he has only been able to find a place in a favela to stay. The favela is very crowded. It is a shanty town built on the side of a mountain, | Highlights negative asoc of city life will so to cor 19 de son making care see   |                         |
| but some people have managed to make houses out of concrete and are connected to water and electricity supplies.   | Better living conditions in the city   | Pull                    |
| There are jobs in the city cleaning and selling on the streets. There are lots of rich people who might give her a job.  | More job opportunities in the city   | Pull                    |
| She is honest and willing to work hard but Rio has a lot of crime and she worries that her children would get caught up with drugs and gangs.  | Highlights negative aspects of city life – will be useful to consider in decision-making exercise  |                         |
| In Mirante life is very difficult. There has not been any rain now for eight months and people are starting to say there will be a drought.  | Drought in the village   | Push                    |
| Sophia believes that the weather helps disease to spread. Her mother and brother have both died in the last six months. She couldn't get them to a doctor and the nearest hospital is over 200 miles away.   | Lack of access to healthcare in the village  | Push                    |
| She worries what she will do if her children get sick. But this is her home.<br>She has lived here all her life and her parents and their parents lived here<br>before that.   | Highlights positive aspects of village life — will in the useful position of the decision of the useful position o |                         |
| Should she leave and take her children to Rio de Janeiro?  |  |                         |

This is a free-thinking exercise – there are no right or wrong answers. Peer-assessmen

Students should give reasoned responses relating to the story in their answer to whe Rio de Janeiro:

### More job opportunities in the city Better living conditions in the city Drought in the village Lack of access to healthcare in the vill Poor environmental condition in the village Migrant families She has no educated the side of a mount of the side of





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### Lesson 10 Overview: Opportunities and challenges



**Learning questions**: What are the opportunities for people living in Riodoes rapid population growth create?

New key terms: social opportunities, economic opposities

Associated Task Sheet: 10 – pages 172 Associated PowerPoint file: 15 301 Jupptx

10.A P

Workshe resources for photocopying:

| For event | Description  | Page(s)      | Photocopies r    |
|-----------|--|--------------|------------------|
| 10.2      | Opportunities and challenges<br>Information Sheets 1–3 | 176 –<br>178 | Copy to A3 – mak |
| 10.2      | Opportunities and challenges analysis sheet            | 179          | Number of studen |
| 10.3      | Opportunities and challenges plenary                   | 180          | Number of studen |

Other resources you may need to provide:

### 10.B Individual student planning

Use this section to tailor your lesson ring incondual students in your class.

|       | Stud > .   | Detail of acti |
|-------|--|----------------|
| G&T   | 749<br>Education   |                |
| SEN   |  |                |
| EAL   |  |                |
| Other | 79 Carlon |                |

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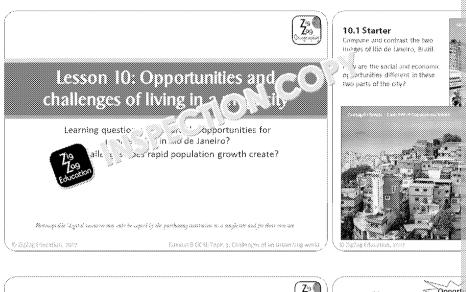
<sup>✓</sup> Glue, stapler or hole punch to attach worksheets

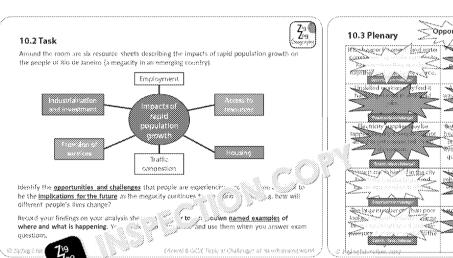
### 10.C Teaching and learning plan

| Suggested<br>time                               | Event                              | ) ask instructions   | S<br>wo  |
|---|------------------------------------|--|--|
| 10 mins   | 79<br>Fdugation<br>10.1<br>Starter | Inetr 1  |  |
| 40 mins<br>(approx. 5<br>mins per<br>challenge) | 749<br>Education                   | Instruction to students: working in gro in the room visiting the 'Opportunitie' and confident of the six impacts of rapid population ground the information of services, and industrialisation and ind | Analys  Distrib  'oppor  and ch  living i  megac  sheets  room |
| 10 mins   | 10.3<br>Plenary<br>79<br>Log       | Instruction to students: working independent in the opportunities and challenges of rapid population growth into the last Teaching strategy: developing una standing by encouraging collaboration and the sportunities would be different in a developed countries. Lead discussion on the answers and the sportunities would be different in a developed countries and which are challenges of urban growth. Some: suggest differences between developed countries and Rio de Janeiro.  | Oppor<br>challer   |



### **PowerPoint Handouts**







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### Task Sheet 10: Opportunities and challenges of



**Learning questions**: What are the opportunities for people living in Riodoes rapid population growth create?

New key terms: social opportunities, economic opportunities

### 10.1 Starter

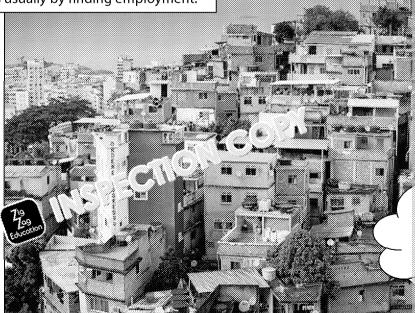
Compare and contrast the truning 3 of Rio de Janeiro (a megacity in an emer 1 a of try). How are the social and

economia je pri je 23 different in the two places?

which peducation and recrebife better



**Economic opportunities are** ways in which you can improve your standard of living by having a better income, i.e. more money to buy the things you need – this is usually by finding employment.



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Cantagalo lavela – 1 kg

### 10.2 Task

Around the room are six resource sheets describing the impacts of rapid popul de Janeiro (a megacity in an emerging country). In groups, circulate around to you.

Identify the opportunities and challenges that people are experiencing and wimplications for the future as the megacity continues (2.5) we and develop, e.g. change? Record your findings on your analysis and experience to write downwhat is happening. You will need to 1.2. See and use them when you answer.

You have only a short of the fact sheets will be swapped. Your teach when you go to the fact sheets will be swapped. Your teach when you go to the fact sheets will be swapped.

### Extension 10.2. 1 -----

If you complete your analysis before the time is up, help other members of your answer. Help them construct their own thoughts by asking them ques Where is it happening?

### 10.3 Plenary

Sort the opportunities and challenges created by rapid population growth in a

| It is cheaper for energy and water<br>companies to provide services to<br>homes when they are close<br>together and near to the source.                 | Clean water and sanitation<br>systems built for a smaller<br>population cannot cope with high<br>dayand.  |
|---|---|
| Unskilled workers may find it by to get work in well-page by  | and water are polluted by<br>waste and emissions from homes,<br>industry and vehicles.  |
| Electricity supplies may be tapped illegally if people cannot afford to get connected. This is dangerous.   | Better access to services such as<br>healthcare and education can be<br>provided where lots of people live<br>close together and there are<br>qualified doctors and teachers. |
| Crime is much higher in the city<br>but there is also a larger and<br>better equipped police force.   | Large numbers of people and vehicles on the transport network leads to congestion and delays.   |
| The large number of urban poor<br>looking for work provides a large<br>labour force for menial and low-<br>paid jobs that are essential to the<br>city. | Large quantities of waste must be removed or it can lead to dyser and diarrhoea.  |

| Opportunitie 📝 👍 population growth | Challenges 🛭 |
|------------------------------------|--------------|
| 79<br>Post contraction             |              |

### Extension 10.3.1

Do you think that the opportunities and challenges faced by people in megwould be the same or different to those in Rio de Janeiro (an emerging coult

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### Opportunities and challenges – Information She

Make one copy to A3 – cut out and place around the classroom

### **Employment**

Rio de Janeiro is an important centre for financial and manufacturing industries. Unskilled workers are needed to work in the many factories that have established in the city. The booming construction industry the product jobs for unskilled workers. The tertiary so this powing as retail and service industries are attracted by the large market and skilled workforce tobs in the production industries tend to go to people with the best education. It is a powing as retail and service industries are attracted by the large market and skilled workforce tobs in the production industries tend to go to people with the best education. It is a powing as retail and service industries are attracted by the large market and skilled workforce to be in the control of the city. The booming construction industry the product jobs in the city.

An estimated 60% of the workforce of the city are employed in the 'informal economy' – jobs created outside the usual employment laws, unprotected and untaxed. Workers are poorly

A multiplier effect describes the process by which something happening causes more of that thing to happen. In this case, when industrialisation occurs it creates jobs and attracts people to the city. This in turn attracts other industries to set up to provide services for those people, creating more jobs. The cycle continues, with the population growing ever larger.



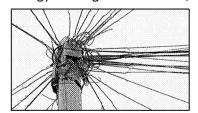
paid, are not guaranteed work conditions, but because they paid in cash these jobs are attrother employment (usually the entrepreneurial favela resider beaches to sell food, beverage set up their own businesses in goods to the people who live

Unemain, hent in the city is head in a faces an economic required affected, with 20%



Access to resources, e.g. energy, water and was

Access to compress varies across the city. Wealthy areas are well connected the city are gradually being connected to energy and water networks, but new outskirts of the city are not. Growing demand for resources has caused price energy shortages. Until 2008, energy theft resulted in 64% of supply being the



Janeiro's favelas. There was a lack of trust be customers and people were willing to risk the cables to the electricity infrastructure in order crime in the favelas has been tackled by the U – police pacifying programme – there have be reliable and affordable electricity to residents.

It is the same story for clean water and sanitation. Wealthy areas are well proimproving in some of the older favelas where some home are connected to withe newer squatter settlements on the outskirt of the people must travel sewage runs in open drains in the streets on the water causes diseases, e.g. are so poor they cannot afford on the streets of the same streets of the same settlements.

Waste disposal is a settlements is difficult because they are often builland, may impossible for refuse trucks to get around. Waste is abandone street or steland. In favelas that have been formally recognised by the authorities, collection points have been set up and waste is regularly removed. Wealthier areas have wider paved streets so bin lorries can collect rubbish easted communities have collection points from which rubbish is removed.





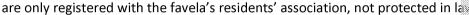
### Opportunities and challenges – Information She

Make one copy to A3 – cut out and place around the classroom

### Housing

Rio de Janeiro is surrounded by natural barriers – the Atlantic Ocean to the somountains and rainforest to the north and west. This is a growth difficult, with lots of people wanting to build on the same is a find the value increased evelopment, builders want to get as a properties on the land as possible of high-rise condominiums as fap remember blocks.

The land the is composed build on – for example, on the sides of Rio's steeping ans – is used by the poor to create squatter settlement. Rio de Janeiro these are known as favelas). They reuse materials they can find or that are cheap to buy, e.g. corrugated iron, broken bricks and plastic sheets. There are few roads due to the steepness of the land and the haphazard way the development has grown (no one has planned what should go where!). In heavy rains it can become very dangerous as landslides can happen, demolishing homes and killing people. The land does not belong to the person who built the house and ownership rights



Some favelas have been established for 50 years. But as a result of the governonditions, some areas of favela have been demolished – their residents move 30 miles away from where they once lived. In some favelas new building reguland can't be built, and rates which charge residents for solvices provided by the removal. Some favelas have a strong community of the hocal residents case having their unpaved streets concreted evaluations installed, and water at example, in Asa Branca a favelar of the 2016 Olympic park, where sewage runs down the stable have a hoping some of the funds from the Olybasic plumbing and the stable tion. Improvements to favelas also bring benefits to example for additional condos increased in value by 30% a month after the perfavela in Janeiro). Wealthier housing developments are often gated, a shopping facilities on site.



### **Traffic congestion**

Traffic congestion is particularly bad in the city. It can take 50% longer to real Car ownership has increased by 40% in the last decade. Some believe this is by car than using public transport where they may be victims of crime. Three city is caused by exhaust fumes from the 2.7 million vehicles on Rio's roads, cay year to die from deadly smog. People with heart and lung problems are particularly



Improvements are being made to the Perimet of a sed road that carried as been chocked down to allow the concentration of a new six-lane rollanes to ease rush hour traffic. Ever lengthened to run through an undertaking traffic officentral city roads. a 21 km expressway connecting no investment, have removed 40% of Public transport systems are being

of cars. Four new rapid transit bus lines have been built to carry commuters in reducing CO₂ emissions. The underground transit system (metro), which carried each day, has recently been expanded.

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### Opportunities and challenges – Information She

Make one copy to A3 – cut out and place around the classroom

### Provision of services, e.g. healthcare and e

There are two public hospitals in the city but they are always busy. A large nurare available if you can afford to pay their increasing resolvent treatment. In 20 financial investment in healthcare aiming to have finally nealth clinic for ever By 2016, 300 new or reformed health (covering 70% of the city) had been a lack of doctors will not a mit to working long hours among the that are difficult to reconstructed at the city few services and high crime rates.

As well a making infants and screening women for cervical and breast cance authority been the control of infectious diseases through education. Denguish mosquitoes, which don't discriminate between the wealthy and poor when a sectors of the population are most likely to be well informed about the symptom diseases and are better able to seek medical attention. Mosquitoes breed in stawhich is commonly found in areas of poor drainage and where there are no for systems, especially during the rainy season (December to March).

Rio de Janeiro has better literacy rates than rural areas of Brazil, with 90% of read and write. The 10% who do not benefit from an education are found may of children remain homeless. Although education is mandatory and free from are too busy working to get their children to school. Some children may be set themselves. Wealthy parents can often afford to send their children to private

Although in 1995 Rio had 1,033 primary and 370 secondary schools, with a total are insufficient schools in favelas to cater for the number of children. This lead children must travel long distances to school. The dents can attend one of schools and go on to one of six major of the or 47 private schools of high shortage of qualified teachers and state education system. In 2015, one four months in protestal and schools and pay. Many teachers do not was concernated to the contract of the cont

### Industrialisation and investment

Rio de Janeiro has been industrialising since the 1940s, when the government of industrial complexes in the region. As the population of the wider metrope agglomerated to form the megacity we see today. There are still distinct imp

10.1). Recent new discoveries of offshore oil fields and gas fields have led to the growth of oil refineries along Guanabara Bay, and a number of manufacturing industries are rapidly growing in the city, e.g. clothing and shoes, food processing, computing and electronics. The city's infrastructure (with two airports and five ports) makes it an ideal location for the headquart many of Brazil's top import-export companies, e.g. Petrobas and OGX (oil and gas) V m ) 87 and CSN (steel and cement).

| Location       |
|----------------|
| Duques de Caxi |
| Niterói        |
| Volta Redonda  |
| São Gonçalo    |

Table 10.1: Examp

Many the ds is have been created, but, as in many developing and enlaws are and difficult to enforce, and there are no unions to defend work 2016 Olympic Games, an estimated R\$2.83 billion (£740 million) of public moninfrastructure and building new venues (another R\$4.24 billion from private in investment would create a legacy for the city, but this has not been fairly distributed. For example, Barra da Tijuca, where the Olympic village and eight from a new metro line, boosting the local economy, while poorer areas have

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### Oppo .... iti . and challenges analysis sheet

Make as many copies as students – give one to

| Challenge 79  | D . 2 opportunities, give examples | Describe the challenges, gi |
|---|------------------------------------|-----------------------------|
| Industrialisation and investment                                      |                                    |                             |
| Provision of services, e.g. health and education                      |                                    |                             |
| Access to<br>resources, e.g.<br>energy, water<br>and waste<br>disposa |                                    |                             |
| Employment  |                                    |                             |
| Traffic<br>congestion   |                                    |                             |
| Housing 79  |                                    |                             |



### **Opportunities and challenges (Plenary**

Make as many copies as students/2 – cut out and give one set to each student

It is cheaper for energy and water companies to provide services to homes when they are close together and near to the source. Clean water and sanitation systems built for a smaller population a cope with high semand.

Unskilled workers a war skindrd to garage killy simpäid jobs. Air and water are polluted by waste and emissions from homes, industry and vehicles.

Electricity supplies may be tapped illegally if people cannot afford to get connected. This is dangerous.

Better access to services such as healthcare and education can be provided where lots of people live close together and there are qualified doctors and teachers.

Crime is much higher in the city but there is also a larger and better equipped police force. Large numbers of people and vehicles on the transport network lead to congestion and delays.

The large number of urban poor looking for work provides a large labour force for menial and low-paid jobs that are essential to the city.

Large quantities of waste must be removed or it can lead to dysor it. Inc. diarrhoea.

**><** 

It is charge for energy and water compactor provide services to homes when they are close together and near to the source.

Clean water and sanitation systems built for a smaller population cannot cope with high demand.

Unskilled workers may find it hard to get work in well-paid jobs.

Air and water are polluted by waste and emissions from homes, industry and vehicles.

Electricity supplies may be tapped illegally if people cannot afford to get connected. This is dangerous.

Better access to services such as healthcare and education can be provided where lots of people live close togeths and there are qualified accordance and teachers.

Crime is much higher in the factorial but there is also the force.

Large numbers of people and vehicles on the transport network lead to congestion and delays.

The large number of urban poor looking for work provides a large labour force for menial and low-paid jobs that are essential to the city.

Large quantities of waste must be removed or it can lead to dysentery and diarrhoea.

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Zig Zag Education

### **Lesson 10: Answers**

### Abbreviation of Assessment Objectives (AO):

- 1. Knowledge
- 2. Understanding
- 3. Application of knowledge and understanding
- 4. Skills

### 10.1 Starter

AO1 and AO2 Compare rate Copacabana beach and Contaglo favela – both in neighbouring a recompared to the Examples of contrasts that could be noted by students:

| Education        | Economic  | Social   |
|------------------|---|--|
| Copacabana beach | Jobs in tourism industry – tour guides, bars and restaurants, hotels.  Informal-sector jobs for street vendors and beach hawks. | People are here for enjoyment.  People are wealthy and leisure time and money spend on holidays. |
| Contaglo favela  | People must travel out of the favela for work or set up their own businesses providing goods and services to favela residents.  | People live here – there sense of community. People are poor.                                    |

### 10.2 Task

AO1 See table for summary of finding no page. Mark for accuracy.

### 10.3 Plenary

AO1 and A

### Extension Education

AO3 Mostly the same issues if dealing with rapid population growth. Developed count on provision of services but there will come a point at which the speed of expansion of the population. Remember, wages and, therefore, taxes may be higher, but costs assalso higher. Students reason whether it is the speed of growth or wealth that is the copportunities and challenges in a megacity.

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| Challenge  | Describe the opportunities, give exar المرابعة   | Describe the challenges, give   |
|--|--|---|
| Industrialisation<br>and investment<br>To<br>Educe         | Growth of manufacturing and shoes, food processing and electronic and industry.  Thousands of jobs created.  | <ul> <li>Workers are not protected, i.e. laws are weak and difficult to enthere are no unions.</li> <li>Investment doesn't benefit the wealthy suburbs such as Barra cobenefited from a new metro linhosted the Olympics 2016.</li> </ul>   |
| Provision of services, e.g. health and education           | <ul> <li>There are two public hospitals in the city.</li> <li>New health clinics.</li> <li>Most children go to school and it is free from the age of six.</li> <li>There are six major universities in the city.</li> </ul>                                    | <ul> <li>Hospitals are always busy, you better treatment.</li> <li>There are not enough doctors work in poor areas.</li> <li>Poor areas of the city have most carry dangerous diseases.</li> <li>Children from very poor families work instead of going to school.</li> <li>There is a shortage of teachers paid well.</li> </ul> |
| Access to resources, e.g. energy, water and waste disposal | The it is a services.  | <ul> <li>Energy and water prices are rising demand and shortage of resours</li> <li>Although life is getting better in newer favelas on the city outskill energy, sanitation or waste disp</li> </ul>   |
| Employment   | <ul> <li>Unskilled workers are needed to work in factories.</li> <li>There is a booming construction industry.</li> <li>There are jobs in skilled and unskilled tertiary sector industries.</li> <li>You can work for yourself selling to tourists.</li> </ul> | <ul> <li>The best jobs go to the most sk</li> <li>60% of the workforce work in the economy.</li> <li>Unemployment is 11.6% (2016)</li> <li>Among young adults it is 20%.</li> </ul>   |
| Traffic congestion   | Car ownership has increased by 4 % the 10 years. Improvements ar Le. & to the roads, e.g. to! 'c. round tunnels. 'c. v. 1ts to public transport systems, e.g. In a pid transit bus lines (RTB), new metro line (will carry 625,000 people).                    | <ul> <li>It takes as much as 50% longer in journey during peak times.</li> <li>There are many more cars on the people avoid public transport be worried about crime.</li> </ul>   |



| Challenge  | Describe the opportunities, give er and es   |     | Describe the challenges, gi   |
|------------|--|-----|---|
| Housing 75 | There is a lot of no city.  Conclusion of color favelas are improving as renovated and rebuilt.  Improvements to favelas make wealthier areas more valuable, e.g. Sao Conrado apartments next to Rocinha, Rio de Janeiro's largest favela. | : i | Natural barriers to development and sea, mean land is in high dent increasing number of tall build property prices increase. Squatter settlements develop of difficult and dangerous land. The constructed and prone to lands in favelas people may not have live in their homes. |







### Lesson 11 Overview: Inequalities i



Learning questions: How and why does wealth and quality of life vary

New key terms: inequalities, quality of life, standard of living, life expectant

Associated Task Sheet: 11 – pages 188 Associated PowerPoint file: Le

11.A Prata

ICT – For the lesson you will need Internet access to either:

- http://webdocs.dw.com/rio/english#
- BBC news: http://www.bbc.co.uk/news/science-environment-1854
- or http://www.bbc.co.uk/newsround/27982333 (2.30 mins)
- Daily mail: http://www.dailymail.co.uk/news/article-3689767/As-Richard Mangueira-favelas-not-Games-glitz.html (40 seconds)

Or use Maria's story\*

Worksheets and resources for photocopying:

| For event | Description                       | Page(s) | Photocopies r     |
|-----------|-----------------------------------|---------|-------------------|
| 11.1      | Satellite image of Rio de Janeiro | 193     | Number of studen  |
| 11.2      | Favela checklist                  | 10,     | Number of studen  |
| 11.2      | *Maria's story                    | 1 , 5   | Number of studen  |
| 11.3      | Sebastian's blog                  | 196     | Number of student |
| 11.3      | Copy and cc a graph               | 197     | Number of studer  |

Other re  $\frac{1}{100}$  s ya may need to provide:

### 11.B Individual student planning

Use this section to tailor your lesson plan to individual students in your class

|       | Student(s) | Detail of acti |
|-------|------------|----------------|
| G&T   |            |                |
| SEN   |            |                |
| EAL   | 78 NSPECS  |                |
| Other | Education  |                |

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<sup>✓</sup> Glue to pier or hole-punch to attach worksheets.

### 11.C Teaching and learning plan

| Suggested | Freezent                            |   | Т |
|-----------|-------------------------------------|---|---|
| time      | Event                               | sk instructions   |   |
| 10 mins   | 749<br>Education                    | Instruction: working independently identify and label the locations the table on the aerial photograph of Rio de Janeiro.  Instruction: the table on the aerial photograph of Rio de Janeiro.  In activity – develop student skills by questioning their understanding of what they can see in the aerial photograph, e.g. Where has the land been built on? What are the streets like? How large are the buildings?  Learning outcome –  |   |
| 20 mins   | 11.2<br>Task                        | All: identify different land use on the image.  Instruction to students: working independently watch the video, explore webdocs or read Maria's story identifying the true and false facts about life in a favela. Writing as a journalist write an article called 'the truth about favelas'. Add to your article – 3 facts of your own and a paragraph suggesting why sense of community is important.  Teaching strategy – develop student understanding by leading discussion of findings at end of task. Listen to examples of students work.  Learning outcome –  All: know what life is like in a favela  Most: understand why life i  Some: suggest rea  In the series of community is important to people living there. |   |
| 20 mins   | 79<br>209<br>Education<br>Task      | Instruction and a working independently read Sebastian's blog and answer the grade of the megacity.  Teaching strategy – develop student understanding by reading the blog with the class asking students to identify relevant information and say how this is different to life in the favela. Ask students to swap work and mark each other's answers at the end of the task.  Learning outcome –  All: know how life is different for wealthy people in the megacity;  Most: understand the reasons why inequalities occur in the megacity;  Some: Suggest how rapid rural-urban migration is linked to inequality.  |   |
| 10 mins   | 11.4<br>Plenary<br>7.9<br>Education | Instruction to students: working in pairs discuss what is data shows – be ready to describe and explain the reasons for any path and of serve.  Teaching strategy – develop student ar ilca in y asking for references to knowledge and understanding gained discuss what is e.g. give examples from Sebastian's blog or the favela resource and in slum areas and ask for reasoning.  Lear in the companion of the expectancy varies with social and economic background in Rio de Janeiro;  Nost: can explain why life expectancy varies and make links to earlier learning  Some: can use knowledge and understanding from previous lessons to support suggestions of why life expectancy varies.                            |   |



### **PowerPoint Handouts**



Z9 Z99

### Lesson II: Inequalities in a nest a fix

Learning questi , , , , , , why does wealth qua y vary in Rio de Janeiro?

Paracepuble digital recurrence may only be copied by the purchasing marriation on a angle site and for their own use

Edexcel B GCSETopic 5: Challenges of an urbanising world

### 11.1 Starter Find the following locations and label your aerial hotograph with the letter the key. List the features au used to identify each location in the third column of the table.

e startin vestoa ea of Broomise - Bio de Jeneiro's Lerge iliging kalife of the American Side of Riccie Tankino adependent school for norsery to Year 12, with 1,150 taera Crais considera scodo gical grank

### 11.2 Task

(a) Imagine you are a journalist working for an international newspaper.

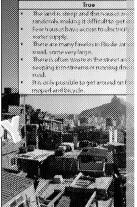
Investigate life in the favelas of Rio de Janeiro by watching one of the following videos or exploring the webdocs website: https://websieco.doc.com/vio/engtsht-

### Videos

Use the checklist to tick off the True or False facts that you see, hear or read

(b) Compile the true facts in a brief article called The truth describing conditions in the favela. Include an exchange with the favela. Include an exchange with the favela include an exchange with the favela in a factor of the favela in the favela in an exchange with the favela in the favela i

Edeveral & GCDE Topic at Challenger of excertamene world



### 11.3 Task Use three-way nking! Social Read Maria's story and the extract from the blog 'MY RIO DE JANEIRO' Environmental

(a) Using the table on worksheet 11, if wealthy resident of flio de Jonein lorgest favela.

### 1. Access to services such as health

Sohastton has been to university. notes that some children in the fac-tion poor to go to school, they must

### 3. Benefits from the city's economic

Makes jobs for the wealthy, New Idstructs only wealthy get amend he are few tangible benefits for the po

### 5. Cultural opportunities, e.g. leisur

Tickets to sporting events are expend

poor can't afford to go. The control is a celebration for ever

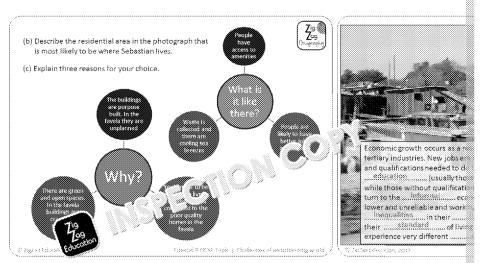
C Parks Education, 2017

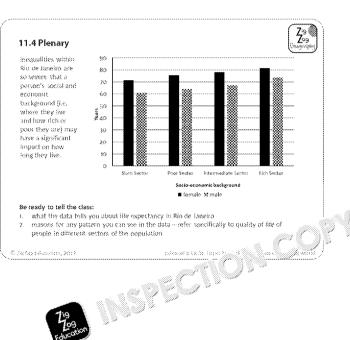
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### Task Sheet 11: Inequalities in a

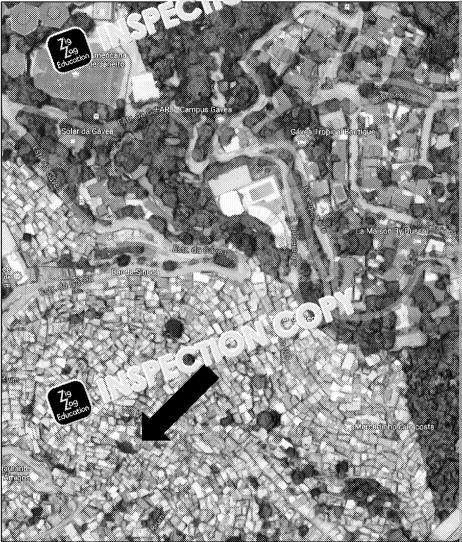


**Learning questions**: How and why does wealth and quality of life vary

New key terms: inequalities, quality of life, standard of living, life expect

### 11.1 Starter

Study the satellite image of Rio day eight



\*Photograph courtesy of Google Maps

Find the following locations and label your aerial photograph with the letter is land-use of each location in the third column of your table.

| Location   | (ey |  |
|--|-----|--|
| The North East area of Rochina – Rio de Janeard        | Α   |  |
| largest favela   | A   |  |
| Playing fields of the American School, Rio de          |     |  |
| Janeiro – a private i deficient school for nursery     | В   |  |
| to year 15 whents.                                     |     |  |
| to year 15 conts.  Morro Lagrania nãos Ecological park | С   |  |
| Luxury mansions with private roads. Many have          |     |  |
| landscaped gardens, private swimming pools and         | D   |  |
| tennis courts  |     |  |

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### 11.2 Task

Read through the true or false favela checklist.

### Favela checklist

The favelas are a major tourist destination for people visiting Rio de Janeiro

The land is steep and the houses are built randomly 💪 ing it difficult to ge

There are many parks and green spa

Few houses have access the activity or a clean water supply

Many ( 🌉 դ Հ 🔊 a good education and will go to university

'Favela' imeans area of outstanding natural beauty in Portuguese

There are many favelas in Rio de Janeiro, some small, some very large.

There is often waste in the street and sewage seeping into streams or runnithe road.

It is only possible to get around on foot or by moped and bicycle.

Only the wealthiest people can afford to live in the favela

(a) Imagine you are a journalist working for an international newspaper. Investigation of the following videos, reading Maria's story or http://webdocs.dw.com/rio/english#.

Use the checklist to tick off the True of False facts that you see, hear or read.

Ramer than type out the

### **Videos**

ttp://www.bbc.co.uk/news/science-environment-18stup://www.bbc.co.uk/newsround/27982333 (2.30 mins)
mail: http://www.dailymail.co.uk/news/article-3689767/As-Mangueira-favelas-not-Games-glitz.html (40 seconds)

(b) Compile the true facts in a brief article called 'The truth about favelas' de Include an explanation of why life is like this. Try to say everything you re

### -Extension 11.2.1-----

Add 3 of your own facts about life in a favela to your article.

### Extension 11.2.2

One positive aspect of living in a favela is that there is a strong sense of conto your article suggesting what this means and who is important.

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### 11.3 Task

Read the extract from 'MY RIO DE JANEIRO' a blog written by Sebastian Santos Janeiro. Sebastian is 25 and has just graduated from the Federal University of Business. The names of the companies have been replaced but the rest of the Rio for this young man.

- (a) Identify 6 ways in which Sebastian's life is different from that of people I
- (b) The photograph at the top of the Se' a tic bog was taken in the direct satellite image from the star Describe the residential area in the where Sebastian live

### 719 09 04:00:00

Relater Articles

N / 3 0 0

It's Friday and yes, the sun is shining again here in the Marvellous professors at University today – for all their excellent teaching. We are lucky to have such high quality educational establishments here in the city.

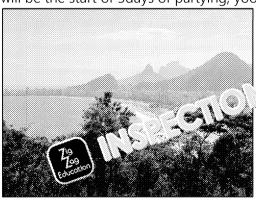
My education has been instrumental to me sealing my first big deal with none other than NoXSUSH Chemicals. So I can officially announce they will be building their new chemical plant right here in Rio de Janeiro, creating 3,000 new jobs within the chemical industry. This sort of development is really important to stimulate economic development in the city and Brazil!



It's mostly thanks to the government's doing at a dareas for industry on the infrastructure – with 2 airports and one in Rio you can really get people quickly and of course to a dareay!). But not forgetting the importance of here in warrant and oney are also key to attracting new business and inventors.

Later today it will be time to hit the beach. This weekend is the South Ameit's being held here this year. Well where else! Come down to Copacaba temporary stadium is back up for the event and the crowd will be crazy. Transport – catch the metro to stop 'Cardeal Arcoverde' for a quick journey from just about anywhere in town.

Next weekend it's all about CAHR-NAH-VAHU (that's Carnival to anyone will be the start of 5days of partying, yoo hoo! Looking forward to seeing



bloco, check the app for details time and route. You know you samba — Son't forget your

And for those of you asking for snap shot from my balcony. Melectricity company that really comply connected without a fusilast night! And of course to Águthis complex doesn't even need

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- (c) Explain 3 reasons for your choice.
- (d) There are many reasons why inequalities exist between the rich and poor in Rio de Janeiro. Copy and complete the explanation of how economic growth and the informal economy are linked to inequality.

Standard of live get the things ye food, energy, class

Quality of life of life – how has

| Economic growth occurs as a regular state.                                 |
|--|
|  |
| New jobs are created most everyone has the                                 |
| qua (129) ns needed to do them. People who have received a good            |
| (usually those from wealthy backgrounds) will while those without qua      |
|  |
| They may turn to the   |
| make a living, where are lowere  |
| can be poor. This creates  |
|  |
| their and job security which mear  |
| of living will not be the same. Ultimately they will experience very diffe |
| of life.   |

| of file.   |                   | <b>,</b>     |
|------------|-------------------|--------------|
| education  | iti jus           | skills       |
| employment | ്ററome            | informal     |
| stand      | industrialisation | inequalities |

### Extension 11.3.1----

Suggest how rapid rural-urban migration is linked to inequality in the megastollowing words in your answer:

| squatter settlement | poor living conditions |
|---------------------|------------------------|
| urban areas         | rural areas            |
| housing shortage    | temporary materials    |

### 11.4 Plenary

Inequalities within Rio de Janeiro are so severe that a region's social and ecolive and how rich or poor they are) may have a region at impact on how long showing life expectancy at birth in Ric is in a different sectors of the the urban poor, those on interpretation in the rich.

Be ready to tell th

- 1. W 🔑 c a rells you about life expectancy in Rio de Janeiro;
- 2. Recommon any pattern you can see in the data refer specifically to questions sectors of the population.

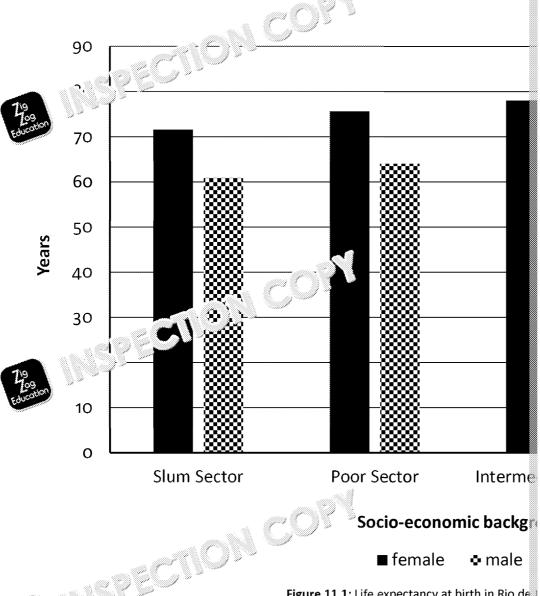
### Extension 11.4.1

The difference in life expectancy between men and women is greatest in the Suggest reasons to explain why this might be.

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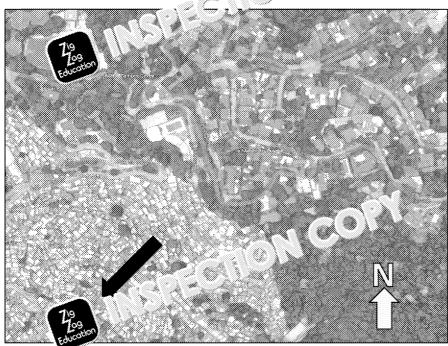
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Figure 11.1: Life expectancy at birth in Rio de Data source: Chart drawn from data published in the American Journal

### 

Make as many copies as students/2 – Cut & hand a students/2 – Cut & ha



| Location   | Key | Features used in identification |
|--|-----|---------------------------------|
| The North East area of<br>Rochina – Rio de Janeiro's<br>largest favela   | А   |                                 |
| Playing fields of the<br>American School, Rio de<br>Janeiro – an independent<br>school for nursery to year 12.<br>1157 students. | В   |                                 |
| Morro Dois Irmãos Ecological<br>park<br>Luxury rosas wit   |     |                                 |
| roads. N Good langscaped gardens courts wimming pools and tennis courts  | D   |                                 |

Playing School independent to year Morro

# $\frac{Z}{Z}$



### Favela checklist (Task 11.2).

Make as many copies as students/2 –Cut and handout 1 each.



### Favela checklint

The favelas are a major tourist destination for people visiting Rio de Janeiro

The land is steep and the loses are built randomly making it difficult to ge

There and my spiles and green spaces.

Few houses nave access to electricity or a clean water supply

Many children get a good education and will go to university

'Favela' means area of outstanding natural beauty in Portuguese

There are many favelas in Rio de Janeiro, some small, some very large.

There is often waste in the street and sewage seeping into streams or runnithe road.

It is only possible to get around on foot or by moped and bicycle.

Only the wealthiest people can afford to live in the favela



### Favela checklist

The fat Tegre Major tourist destination for people visiting Rio de Janeiro

The land is steep and the houses are built randomly making it difficult to g

There are many parks and green spaces.

Few houses have access to electricity or a clean water supply

Many children get a good education and will go to university

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There are many favelas in Rio de Janeiro, some small, some very large.

There is often waste in the street and sewage seeping into streams or runnithe road.

It is only possible to get around on foots by peed and bicycle.

Only the wealthiest pegal ford to live in the favela



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### Maria's story (Task 11.2).

Make as many copies as students/2 - Handout 1 each

My name is Maria, I am IS and I live in Rochina, the largest favela in Brazilian term for a city slum or squatter settlemen. Houses are but cheap materials on the steep side of the mr., as we are the land is deplanning controls or infrastructure see are crammed close together build them. The steepness of the makes it difficult to build roads maze of narrow the steepness of the maximum and makes it difficult to build roads

Some ho will do not have a water supply or electricity provider. We stand pipes and sometimes people use wires to join to the mains electric possible for refuse lorries to get into the favela so waste has to be conjust dump it in the road. Some of the poorest areas further up the rejust plastic pipes or culverts along the streets that carry sewage down

There is a vibrant community, many young children who are not at school get older they will work to make enough money for their family to eat to find a doctor as there are over 70,000 people living here, but in a large favela we have a small hospital and medical centre. The fact that here also means there are opportunities to sell things or do jobs, but people travel down into the main city to find work. There is no heart of the favela you have to walk to a row.

%

My named aria, I am 15 and I live in Rochina, the largest favela in Brazilian eerm for a city slum or squatter settlement. Houses are but cheap materials on the steep side of the mountains where the land is deplanning controls or infrastructure so houses are crammed close together build them. The steepness of the land makes it difficult to build roads maze of narrow streets.

Some homes still do not have a water supply or electricity provider. We stand pipes and sometimes people use wires to join to the mains electric possible for refuse lorries to get into the favela so waste has to be conjust dump it in the road. Some of the poorest areas further up the point plastic pipes or culverts along the streets it is rry sewage down

There is a vibrant community, money children who are not at school get older they will work was a sough money for their family to eat to find a state over 70,000 people living here, but in a large far have a small hospital and medical centre. The fact that here also means there are opportunities to sell things or do jobs, but people travel down into the main city to find work. There is no heart of the favela you have to walk to a road.

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### Sebastian's blog (Task 11.3).

Make as many copies as students/2 – Handout 1 between 2

My Blog Posts

Related Articles

My Blog

It's Friday and yes, the sun is shining again here have Marvellous professors at University today - f. all hear excellent teaching. We are lucky to have sight the fallity educational

establishments ' Le city.

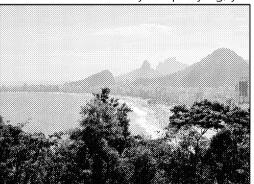
My education has been instrumental to me sealing my first big deal with none other than NoXSUSH Chemicals. So I can officially announce they will be building their new chemical plant right here in Rio de Janeiro, creating 3,000 new jobs within the chemical industry. This sort of development is really important to stimulate economic development in the city and Brazil!



It's mostly thanks to the government's designated areas for industry on the infrastructure – with 2 airports and 5 ports (in Rio you can really get people quickly and of course time is money!). But not forgetting the importance here in wonderful Rio. They are also key to attracting new business and in

Later today it will be time to hit the beach. This weight is the South American it's being held here this year. Well where all a come down to Copacaba temporary stadium is back up 🛴 🍆 hant and the crowd will be crazy. 🧵 transport – catch the propression of the control of from just a ut a , while in town.

Next weekend it's all about CAHR-NAH-VAHU (that's Carnival to anyone will be the start of 5days of partying, yoo hoo! Looking forward to seeing



bloco, check the app for details time and route. You know you samba – but don't forget your

And for those of you asking for snap shot from my balcony. M electricity company that really @ supply connected without a fus last night! A d of course to Aq. this zin siex doesn't even need

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### Copy and complete paragraph (Task 1

|   | employment | industrialisation industrialisation industrialisation |  |
|---|------------|---|--|
|   | standard   | madathanato   |  |
| • |            |   |  |

| Education  |                   |                                    |
|------------|-------------------|------------------------------------|
| education  | conditions        | skills                             |
| employment | income            | informal                           |
| standard   | industrialisation | skills<br>informal<br>inequalities |

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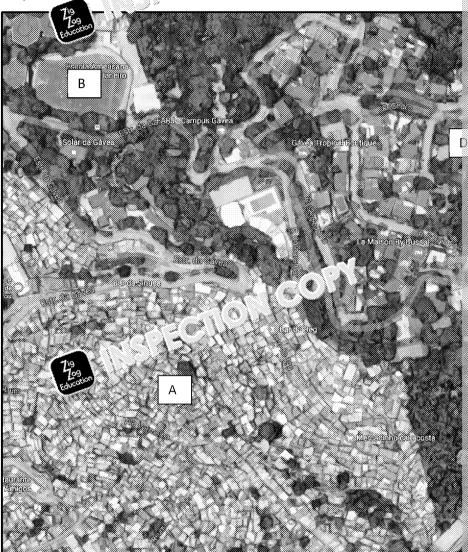
### Lesson 11: Answers

### Abbreviation of Assessment Objectives (AO):

- 1. Knowledge
- 2. Understanding
- 3. Application of knowledge and understanding
- 4. Skills

### 11.1 Starter

AO4



Features used in identification:

| Α | Narrow roads, small irregular shaped buildings niformed layout, s                     |
|---|---|
| В | Open space of mown and irrigated gra  |
| С | Irregular tree tops and rock or an and rock or an |
| D | Wide open roads, organise it was ture, large buildings, many with prival              |



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### 11.2 Task

(a) AO1 & AO2

### True The land is steep and the houses are built randomly making it difficult to get around; Few houses have access to electricity or a clean water supply; There are many favelas in Rio de Janeiro some very large;

- some very large;

   There is often waste in the tree is a sewage seeping into streams or resulting the road;
- It is poss set around on foot or by moped
- The favelas are and visiting Rio de Jane There are many particular Many children get university;
- 'Favela' means are Portuguese;
- Only the wealthic favela.

(b) AO1 & AU2

Identify the correct facts from the article – listed above. Total of 10 marks

### Extension 11.2.1

AO1 Any three accurate facts can be added from the videos or story.

### Extension 11.2.2

AO2 Students could mention support (e.g. childcare, care for the elderly); sharing of together to achieve improvements; sense of pride; and community events make life

### 11.3 Task

(a) AO1 & AO2 Social and economic opportunities created by urban growth in Rio d

| 1. Access to services such as health and education: It is possible to get a university education in the city. Sebastian attended the Federal University of Pio education in the city.              | i. Public transport sy<br>Sebastian talks about<br>that can take you an |
|--|---|
| 2. Stimulus for economic devaluation.  The government has classification easy on the outskirts are classification.  The city of the city and out of the city.                                      | 5. Employment: There is an abundant New businesses are                  |
| 3. Cultural opportunities, e.g. leisure and sport Rio hosts sports events like the Olympic games and other international championships; There is an annual carnival which attracts lots of people. | 6. Access to resource   |

- (b) AO1 Students should suggest he lives in the apartment blocks in the mid ground ground. Descriptions could include take into consideration:
  - Economic income expect those living in tower blocks have jobs and incor
  - Social wellbeing anticipate those living in tower blocks have amenities, a
  - Environment anticipate those living in tower block have waste collection
- (c) AO2 Answers could include consideration of implications of built environment of and environment
  - Economic income small and poor quality by as suggests poorer resident
    apartments suggests wealthy enough to be sent.
  - Social wellbeing planned as see your purpose built apartments would country unplanned housing at this end serviced by energy or sanitation.
  - Environmar ி er அace and green areas near to the beach versus cram
- (d) AO2 The mic growth occurs as a result of industrialisation and growth of tertiabut recovery one has the skills and qualifications needed to do them. People we (usually those from wealthy backgrounds) will benefit while those without qualifications needed to do them. People we (usually those from wealthy backgrounds) will benefit while those without qualifications needed to do them. People we (usually those from wealthy backgrounds) will benefit while those without qualifications needed to do them. People we (usually those from wealthy backgrounds) will benefit while those without qualifications needed to do them. People we (usually those from wealthy backgrounds) will benefit while those without qualifications needed to do them. People we (usually those from wealthy backgrounds) will benefit while those without qualifications needed to do them. People we (usually those from wealthy backgrounds) will benefit while those without qualifications needed to do them. People we (usually those from wealthy backgrounds) will benefit while those without qualifications needed to do them. People we (usually those from wealthy backgrounds) will benefit while those without qualifications needed to do them.

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### Extension 11.3.1

AO3 Students should award themselves a mark for every word used in the correct se

### 11.4 Plenary

- 1. AO4 There is a direct correlation between wealth and life expectancy. The data shigher for wealthier residents of Rio de Janeiro than the poor. Those living in the expectancy 71 for women and 61 for men compared to 81 for women and 74 for women are expected to live longer than men. The property between life expectation the slum sector and lowest for the rich.
- 2. AO3 Reasons include inequalities in the life specifically access to education agenerate an income relate that a point of afford good quality housing with sanitation

Extensio

There is The revenue of violent crime in the favelas which has led to the death of with more with more areas.



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### Lesson 12 Overview: Managing the



Learning questions: What are the political and economic challenges to

New key terms: civilian discontent, conflict over investment, criminality, criminality, criminality, criminality, criminality, criminality, criminality, criminality, criminal

Associated Task Sheet: 12 – page 205
Associated PowerPoint file: Lesson 1 (p)

### 12.A Preparation

ICT – Fo. 2.4 of the lesson you will need Internet access to either:

You Tube: https://www.youtube.com/watch?v=fywvd6mmDhs (1.17

You Tube: https://www.youtube.com/watch?v=1W\_zM7koJy8 (8.36

Worksheets and resources for photocopying:

| For event | Description                    | Page(s)      | Photocopies 1     |
|-----------|--------------------------------|--------------|-------------------|
| 12.2      | Information cards — Part 1 & 2 | 206 –<br>207 | Number of student |
| 12.2      | Ask and expert note sheet      | 208          | Number of studen  |

Other resources you may need to provide:

✓ Glue, stapler or hole-punch to attach worksheets.

### 12.B Individual student planning

|       | Ct . ' (S        | Detail of acti |
|-------|------------------|----------------|
| G&T   | 7403<br>Educates |                |
| SEN   |                  |                |
| EAL   |                  |                |
| Other | 79.00 Edvices    |                |

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### 12.C Teaching and learning plan

| Suggested<br>time | Event                                     | ask instructions  | Stude<br>worksh   |
|-------------------|---|---|---|
| 10 mins           | 79<br>209<br>Education<br>12.1<br>Starter | Inst to Luents: working as a class play the word-chain game — wool or string to be thrown between students to create a visible chain around the classroom and encourage participation.  Teaching strategy — develop student knowledge and understanding.  Adjudicate the game and encourage participation. You can control where the ball goes next or leave this for students to determine.  Learning outcome —  All: know keywords.  Most: can spell keyword.  Some: can give their own definitions for keywords.   |   |
| 30 mins           | 79<br>209<br>Education<br>12.2<br>Task    | Instruction to students: working as a class share the expertise on the four political and economic challenges for any angle megacity. First become an expert in your subjective in a spent, (C) Criminality or (D) Corruption. You will need to now a spent it is? 2. How does it affect the poor? 3. How to the wealthy? 4. How does it affect the future of the spent class will visit the Expert (A)'s — they have 5 minutes to ask the questions and gather information before it becomes the turn of the Expert (B)s, then (C)s and (D)s. By the end of the 30 minutes each student should have notes about each area of interest.  Teaching activity — develop student knowledge by making notes to accompany the task on the whiteboard. Students can check their own findings against this at the end of each 5 minute consultation with an expert. Try to ensure all experts are visited as a 1 student as the process of answering the questions is part of the earning experience.  Learning outcome —  All: know what political and the committee of society (poor and a spent) and the future of the city;  Some: can suggest what can be done to reduce these challenges. | One informat card abo political economi challeng managin megacity Ask an ex |



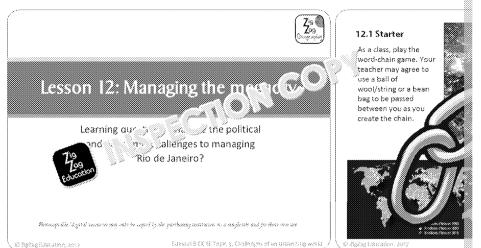
| Suggested<br>time | Event                            | Tok ns ur juns  | Stude<br>worksh |
|-------------------|----------------------------------|---|-----------------|
| 20 mins           | 7.9<br>7.09<br>Education<br>12.3 | resulting and of the videos highlighting the issues resulting and of the videos highlighting the issues resulting and of the videos. As a class make notes and then ensently to create a 15 second speech telling the class what vouid do to tackle the issues raised in the video. Listen to 3 of your class perform their vox pop and take a vote to decide who you would elect mayor.  Teaching strategy – develop student application by encouraging students to refer to previous learning. Identify successful aspects of each vox pop and facilitate class discussion and vote.  Learning outcome –  All: know what issues the people of Rio de Janeiro are facing as a result of the 2016 Olympic games;  Most: suggest ways to tackle these issues based on past learning;  Some: perform their vox pops to the class. |                 |
|                   | 719<br>7209<br>Education         |   |                 |

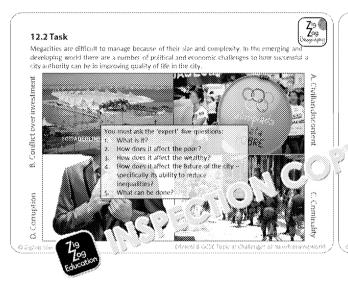


## S



### **PowerPoint Handouts**





### 12.3 Plenary

in 2016, the Olympic Games were helde laneling Preparations for the Game highlighted the issues this megacity is as it continues to grow.

You are going to run for mayor of Rice fameiro in the opcoming mayoral elect a class, watch one of the videos. Togo muse notes about what the issues are people in Rico de Janeiro today.

Now, using your knowledge and under conflict over investment, criminality pepare your own 15-second you poor

It should let people know:

- how you would tackle the issue from the Olympic legacy and
   why this makes you the best per
- why this makes you the best pill the new mayor.

Be ready to perform your vox po

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### Task Sheet 12: Managing the



**Learning questions**: What are the political and economic challenges to

New key terms: civilian discontent, conflict over investment, criminality, criminality, criminality, criminality, criminality, criminality, criminality, criminality, criminal

### 12.1 Starter

As a class, play the word chain gam a 'Su Secher may agree to use a ball of wo bean bag to be passed between voy 32 you create the chain.

The ball to a student of their choice while students. The next player must think of any word relating to urbanisation as they the next player student of their choice.

For example, they might shout '**traffic congestion**' – a challenge caused by urban many vehicles trying to get around a city, causing delays to goods and people.

Your teacher may stop and challenge you to explain the meaning of your word at word that has already been said.

Continue throwing and shouting words relating to **urbanisation** until your time is or you have run out of ideas.

### 12.2 Task

Megacities are difficult to manage because of their size and complexity. In the emergenumber of political and economic challenges to how successful a city authority can be

You are going to investigate (A) Civilian discontent (B) C ..... t over investment, and (D) Corruption. You must ask the 'Expert' 5 realities. These are:

- 1. What is it?
- 2. How does it affect the poc
- 3. How does it affect 3 3 43 44
- 4. How it it is ability to reduce ine
- 5. Wh le uone?
- (a) First you must become an 'Expert' in one area yourself. Read the information answer the questions ready to teach your class mates.
- (b) When your teacher tells you, each member of the class should choose an Expert A questions, note down the copying from the expert's information sheet!
- (c) Next, it is the turn of the Expert Bs to be questioned and do the teaching. For
- (d) Follow the same method with Expert Cs and Expert Ds until everyone has be about all 4 political and economic challenges of managing a megacity.

### 12.3 Plenary

The 2016 Olympic Games highlighted the issues the riangle, You are going to the upcoming mayoral election. As a class we'ld or the videos. Together, may for people in Rio de Janeiro today.

Now using your knowle', and arstanding about civilian discontent, conflict over in Rio de proposed own 15 second vox pop letting people know how you will Olympic and why this makes you the best person to be the new mayor. Be read

Listen to 3 of your classmates vox pops then take a vote to find out who you would

### **Videos**

You Tube: https://www.youtube.com/watch?v=fywvd6mmDhs (1.17mins)
You Tube: https://www.youtube.com/watch?v=1W\_zM7koJy8 (8.36 mins)

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### Information cards Part 1 (Task 12.2)

Make as many copies as students/4 – Cut & handout 1 info card each.

### A. Civilian discontent

Improvements in communication across the world mean that many people understand how their lives could be better. The second hear about people who are better off than them and be want their politicians and leaders should do many to see them. When money is spent on large projects that a not sell them, instead of on their wages or on improving that is a conditions, they get organised and protest. Often the page of the second successful and protest.

Social media and the Internet mean that news about what is happening can reach across the city, country and sometimes the world. If enough people speak out it puts pressure on city authorities and national go

In Rio de Janeiro there have been a number of public demonstrations in recent

| 28/06/16                  | Image posted on social media of Rio de Janeiro policemen greeting banner 'Welcome to Hell: Police and firefighters don't get paid, who be safe';   |
|---------------------------|--|
| 04/08/16<br>&<br>05/08/16 | The Independent newspaper reported how unpaid teachers had tries its parade through the suburbs of Rio de Janeiro and that police had near to the Maracana stadium (pictured). Both protests reflected put of the Olympics in light of Brazil's recession, political and public head virus); |
| 16/11/16                  | The Guardian newspaper reported and Richard Janeiro's police had shade it has city's state assembly the city's state assembly public spending and I had not people working for the state had not   |



Economic growth is generally seen as a good thing, bringing wealth and prosper more businesses to a city there must be investment in infrastructure and favor relief and cheap land). By spending money on improving infrastructure there providing affordable good quality housing, education and healthcare. Althoughous not always reach the poorest people in society. Inequalities can widen an armond the provided and the poorest people in society.

In Rio de Janeiro £9 billion investment was spent improving infrastructure and Games. One of the major projects associated with this was the redevelopment billion has been spent improving roads, putting in rail links and rebuilding sand to attract businesses and new residents. New cultural attractions including twencourage visitors to the area (pictured).



upper-classes rather than proland becomes more valuable dapartments while the city strug shortage. 500 poorer families derelict have been moved out Favela, one of the first favelas been pulled down to make ware residents say that the £24 mill have been better used to pro-

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### Information cards Part 2 (Task 12.2)

Make as many copies as students/4 - Cut & handout 1 info card each

### C. Criminality

In developing and emerging countries megacities can have serious problems we manage their development. Large numbers of per per population may turn to crime in order to in or verball quality of life, and some may be under resourced and inevertee in a part dealing with organised gangs appolice officers and city of the countries of the countries

The crime in Colore increased in 2015 with higher incidence of report et crime including theft and robbery, particularly around Ipanema and Copacabana beaches where tourists are often targeted. Tourists are rarely at risk from deadly crimes, but within the favelas the murder rate is high (3117 across the city in 2015). This is because they are often controlled by gangs trafficking drugs. Since 2010 the Unidade de Policia Pacificadora (UPP) – Pacifying Police Unit – have been working to reduce the crime rate within the favelas and take back control. They have successfully entered and pacified 38 of the 1000 favelas, including the notorious Rochina, the largest favela in Rio. The programme is expensive, however, requiring many police officers who must be trained and then provide an ongoing presence in each favela to prevent the return of criminal gangs.



The UPP has been criticised for a number of reasons:

- It has led to an increase in petty crime possibly by use people are now but more likely because minor criminals a grad (1) 3er under the control
- The programme prioritised favels as of the city leading people to suggestimproving property and quality of life for the rich than about improving property and quality of life for the rich than about improved the city leading people to suggestimproving property and quality of life for the rich than about improving property and quality of life for the rich than about improved the city leading people to suggestions.
- The range of trafficking has not been reduced. Gangs have since ity and more inter gang violence.
- Ther accusations of police brutality, extortion and human rights abuse



### **D.** Corruption

Corruption is a challenge to managing megacities because it interferes with natural economic growth and creates a system where the wealthy can get what they want while the poor cannot. Developers and businesses secretly give money to people with political power so that they'll do what they want them to do.

In Brazil, like many emerging and developing countries, it has been common for businesses to over-charge the government of their work and then pay government officials some of the money. This makes them both richer, but it's basically stem of the public. In 2016 the President after allegations of corruption and value publical parties and officials taking more

In Rio de Jacoiro Comperstate governor was arrested in 2016 as part of an surroun Learning how corrupt politicians are erodes voter trust in their only had a democratically elected government for a relatively short time (28 years) for all literate adults between the ages of 18 to 70 to vote. There is hope that rooted out as politicians become more accountable to the electorate, working rather than themselves.

### NSPECHON COPY



🔑 As n expert note sheet (Task 12)

Make as many copies as students – Handout 1

|   | 1 a discontent | Conflict over investment |  |
|---|----------------|--------------------------|--|
| Political/ecor courants<br>challenge?   |                |                          |  |
| What is it?   |                |                          |  |
| Write a short<br>description of<br>what is happening<br>in the megacity.                                |                |                          |  |
| How are the poor<br>affected?   |                |                          |  |
| How are to education wealthy affected?  |                |                          |  |
| How does it affect the future management of the city – specifically its ability to reduce inequalities? |                |                          |  |
| How would change thin 129 the better  |                |                          |  |



### **Lesson 12: Answers**

### Abbreviation of Assessment Objectives (AO):

- Knowledge
- 2. Understanding
- Application of knowledge and understanding 3.
- 4.

### 12.1 Starter

AO1 & AO2 Students could not be any key terms introduced through learning so far in

| These inc 19                              |  |
|---|--|
| Lesson 1                                  | Lesson 2                                 |
| <ul> <li>Urbanised</li> </ul>             | <ul><li>Megacity</li></ul>               |
| <ul><li>Urbanisation</li></ul>            | <ul><li>World city</li></ul>             |
| ■ Global region                           | <ul><li>Urban primacy</li></ul>          |
| <ul><li>Population size</li></ul>         | <ul><li>Primate city</li></ul>           |
| <ul><li>Population distribution</li></ul> | ■ Economic influence                     |
| ■ Growth rate                             | <ul> <li>Political influence</li> </ul>  |
| Lesson 4                                  | Lesson 5                                 |
| <ul><li>Urban economy</li></ul>           | ■ Spatial growth                         |
| ■ Informal employment                     | <ul><li>Suburbanisation</li></ul>        |
| ■ Formal employment                       | <ul> <li>De-industrialisation</li> </ul> |
| ■ Economic sectors                        | <ul><li>Counter-urbanisation</li></ul>   |
| Economic structures                       | <ul> <li>Regeneration</li> </ul>         |
| <ul> <li>Working conditions</li> </ul>    | <ul> <li>Urban sprawl</li> </ul>         |
| ■ Tertiary sector                         |  |
| Lesson 7                                  | 1,253on 8                                |
| ■ Site                                    | Urban structure                          |
| ■ Situation                               | <ul> <li>Land use</li> </ul>             |
| Co Prity                                  | <ul> <li>Development</li> </ul>          |

- Land use zones
- Building age
- **CBD**

Lesson 11

- Inner city
- Suburbs
- Urban-rural fringe
- Urban model

Inequalities Quality of life

Standard of living

Life expectancy

### Lesson 10

- Economic change
- Access to resources
- Employment
- Service provision
- Housing shortages
- Water supply
- Waste disposal
- Working conditions
- Living conditions
- Urban infrastructur
- Traffic ong a 1



AO1, AO2 & AO3 See table on next page for suggestions of notes and application.

### 12.3 Plenary

This is a free thinking exercise –there are no right or wrong answers as such. Student video (notes will have been prepared on the board) and what they have learnt during

### CION



|   | Civilian discontent   | Conflict over investment   | Crin  |
|---|---|--|---|
| Political/economic challenge?   | Political   | Economic   | Economic  |
| What is it?  Write a short description of what is happening in the megacity.  | People who live in the city campaigning for better work and living conditions. They use social media to help spread their message get people to join them and repressure on the government. | Disagreement about the large sums of money should be projects that a projects that investment from TNC or on and housing.  | High crime rate, es areas of the city reliving conditions of force isn't big enough to deal with problem.                 |
| How are the poor affected?  Suggestions could include:  | Poor live in the worst conditions so they are likely to be most vocal.  | When money is spent on large projects instead of the public the direct benefits are few. Poor people are unable to access the new jobs but may benefit because in the long term there should be more money for the city authority which can then be spent on public services.  | Criminality is higher areas of the city. It tackled there is no incidence of petty been beaten and it                     |
| How are the wealthy affected?  Suggestions could include:   | Some may be interested in the welfare of poorer residents; Changes in government policy may result in increases in taxes and less money spent in wealthy areas.                             | They benefit from new jobs, housing, cultural facilities and events, faster journey times by a can afford to access and the second seco | Their lives are imported increase as a favelas being pacif  |
| How does it affect the future management of the city – specifically its ability to reduce inequalities?  Suggestions could include: | Highlights the issues of one of standard may help of the spending to whether the most economic sense but helps get politicians elected.   | Long-term the city may be in a better position to be able to reduce inequalities but for the time being they widen.  | The city will need police force if it is 1000 favelas (only tackled so far!). Use control in the favel to improve quality |
| How would you change things for the better?  Suggestions could include:   | Could suggest reform of electoral process and city governance to allow people more involvement in the running of the city.  | Involve local people in new schemes or plan schemes the live an element of plan is in some way.  | Support and involvemore in decriminal Tackle the growth so that there aren the city.                                      |



### Lesson 13 Overview: Making a mega



**Learning questions**: What are the advantages and disadvantages of to sustainable megacity?

New key terms: sustainable development, top-down ategies,

Associated Task Sheet: 13 – pages 7 5 – 3 3 Associated PowerPoint file (Scr. 3.pptx

13.A Pi

Workshe workshe resources for photocopying:

| For event | Description       | Page(s) | Photocopies r     |
|-----------|-------------------|---------|-------------------|
| 13.3      | Information sheet | 218     | Number of student |
| 13.3      | Top down table    | 219     | Number of studen  |

Other resources you may need to provide:

✓ Glue, stapler or hole-punch to attach worksheets.

### 13.B Individual student planning

Use this section to tailor your lesson plan to individual students in your class

|       | Student(s) | Detail of acti |
|-------|------------|----------------|
| G&T   |            |                |
| SEN   | Education  |                |
| EAL   |            |                |
| Other |            |                |

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### 13.C Teaching and learning plan

| Suggested<br>time | Event                               | skinstructions   | Student<br>workshee                       |
|-------------------|-------------------------------------|--|---|
| 10 mins           | 749<br>Education<br>13.1<br>Starter | Institute of linearits: working as a class use your existing knowledge words or phrases relating to the word 'sustainable'. This should be from all areas of your life – you will learn more about how we use the word in geography this lesson.  Teaching activity – develop student knowledge by facilitating the discussion. Allow students to write their ideas onto the whiteboard as they come up with successful suggestions. Ask students to suggest how we might use the word in the context of urban growth.  Learning outcome –  All: start to understand the meaning of the word sustainable Some: can suggest ways in which it might apply in Geography.  |   |
| 15 mins           | 13.2<br>Task<br>79<br>Educator      | Instruction to students: working independently about the sustainability stool and quadrant and a fire questions.  Teaching strategy – develop st develop s |   |
| 30 mins           | 13.3                                | Instruction to students: working in pairs read the Information sheet and complete the Top down table by identifying the detail, advantages and disadvantages or each scheme and then judging how well they meet the principles of sustainability.  Teaching strategy – develop student knowledge and inderstanding by reading the information sheet as a class and inderstanding by reading the information sheet as a class and inderstanding by reading the information sheet as a class and inderstanding by reading the information sheet as a class and inderstanding by reading the information sheet as a class and inderstanding by reading the information sheet as a class and inderstanding by reading the information sheet as a class and inderstanding by reading the information sheet and inderstanding by reading the information sheet as a class and inderstanding by reading the information sheet as a class and inderstanding by reading the information sheet as a class and inderstanding by reading the information sheet as a class and inderstanding by reading the information sheet as a class and inderstanding by reading the information sheet as a class and inderstanding by reading the information sheet as a class and inderstanding by reading the information sheet as a class and inderstanding by reading the information sheet as a class and inderstanding by reading the information sheet as a class and inderstanding by reading the information sheet as a class and inderstanding by reading the information sheet as a class and inderstanding by reading the information sheet as a class and inderstanding by reading the information sheet as a class and inderstanding by reading the information sheet as a class and inderstanding by reading the information sheet as a class and inderstanding by reading the information sheet as a class and inderstanding by reading the information sheet as a class and inderstanding by reading the information sheet as a class and inderstanding the information sheet as a class and inderstanding the information sheet as  | Informati<br>sheet;<br>Top dowr<br>table. |



| Suggested<br>time | Event                              | Ta : (sti et no   | Student<br>workshee |
|-------------------|------------------------------------|---|---------------------|
| 5 mins            | 79<br>Education<br>13.4<br>Plenary | Instruction to strain ass discuss which strategy was the most sustainable at your work in Task 13.3 to give reasons for your at on. |                     |
|                   | 79<br>209<br>Education             |   |                     |



### 

## Z



### **PowerPoint Handouts**



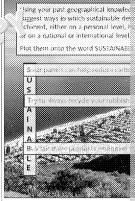
### Lesson 13: Making a megacity sustainable

Learning questing of top-down strategies to top of the advantages to top of the strategies to the strategies

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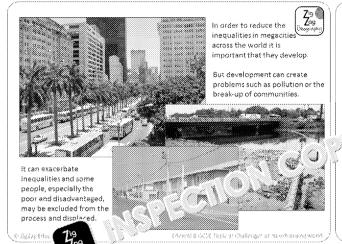
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Edexcet B GCSE Topic 3: Challenges of an ordanisms world



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13.1 Starter



Sustainability

Sustainability

Environment

Economy Socie

© řígřas Katotatien, 2012

### 13.2 Task

The sustainability stool <a href="mailto:mmerri/helps">mmerri/helps</a> us understand what would happen if one or more of the <a href="mailto:thee-four-elements">thee-four-elements</a> of sustainability (environment, <a href="mailto:sweainability">sweainability</a> (environment, <a

(b) Using the sustainability quadrant, suggest why it is important that megatifies develop sustainably. You could plurase your answer in terms of what would happen if they don't!

Benefits of economic growth would not be shared equally among residents.

collapses/grows- the scheme or strategy-is/is not sustainable.

- Foliare generations would not have the same opportunities or access to resources as today.
- People would not be invoved in decisions, and development that affected them.
   The environment would be damaged --water, an Tand and wildlife.

(c) You are going to learn about a number of strategies that have been used in No de Janeiro to improve quality of life in the megacity. Suggest how you could use the sustainability stool and/or the sustainability quadrant to help you assess their sustainability.

Compare what is happening against the principles, i.e. do they balance the needs of the economy, environment and society or do they deliver benefits for all, not impact on future generations, involve the people who will be affected, world harm to the environment.

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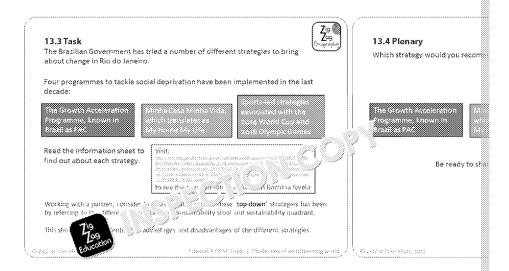


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# Task Sheet 13: Making a megacity



**Learning questions**: What are the advantages and disadvantages of to sustainable megacity?

New key terms: sustainable development, top-do a rategies

# 13.1 Starter

Using your past geographic housedge and understanding suggest ways in we be achieved with the personal level, by schools and businesses or on a national them or the world SUSTAINABLE. Three examples are given to get you started

Solar panels can help reduce carbon dioxide emissions and prevenues

S
Try to always recycle your rubbish
A
I
N
A
Buy fair trade products whenever you can
L
E

Sustaina developing present viole future in needs' Britannia description of futu

# 13.2 Task

In order to reduct the qualities in megacities across the world it the vector that they develop. But development can create problems community to can exacerbate inequalities and some people, especially the excluded from the process.

By aiming to make development sustainable we can be sure that it is fair and bringing economic and social benefits. There are two useful ways of describing have evolved from the original definition created by the United Nations in 198 and the quadrant. We can use them to help us make judgements about the substudy Figure 13.1 and 13.2 and answer the following questions:

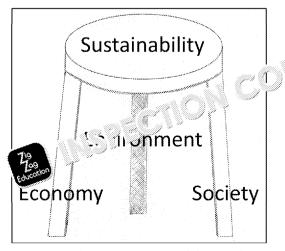


Figure 13.1: Sustainability stool

**Eq**₽ Are the sha

Pui partic Have the will be af

Figu

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# 

- (b) Using the sustainability quadrant suggest why is it important that megaciphrase your answer in terms of what would happen if they don't!
- (c) You are going to learn about a number of mixer is that have been used of life in the megacity. Suggest have could use the sustainability stool to help you assess their saviant way?

Think www way of describing the concept of sustainability – you could a that needs to be held up (like the stool) or a diagram that shows us what we quadrant)

# 13.3 Task

The Brazilian Government has tried different strategies to bring about change in Rio do Janeiro. Four programmes to tackle social deprivation have been implemented in the last decade: The Growth Acceleration Program (known as the PAC), Minha Casa Minha Vida and sports-led strategies associated with the 2014 World Cup and 2016 Olympic Games.

Working with a partner consider how sustainable of these 'top-down' strategies has been by referring the different elements of the sustainability quadrant. The hour harp you identify the advantages and the large ages of the different strategic top your findings in a table (like below).

# -Extension 13.3.1-----

Indicate which of your advantages and disadvantages are environmental, economic or social.

# Top-down strat

- Large budg@
- Loans from §
- National go
- For infrastru
- Local people
- Employ 100

# Bottom-up stra

- Small budge
- Rely on char
- Non-Govern and community
- Small, increis
   standard of
- Work with the
- Employ a hall

| Top down strategy<br>– name and details | Advantages of the strategy | Disadvantages of the str |
|---|----------------------------|--------------------------|
| Growth<br>Acceleration<br>Program, 2007 |                            |                          |
| Minha Casa Minha<br>Vida, 2009          |                            |                          |
| 2014 World Cur<br>and 20 19 mp          |                            |                          |

# 13.4 Plenary

Which strategy would you recommend as the most sustainable? Be ready to

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# Information sheet (Task 13.3).

Make as many copies as students/2 - Handout 1 between 2

# Top down strategies to reduce inequalities in Rio de Janeiro and n

The Brazilian Government's Growth Acceleration Program, known as PAC begaeconomic growth in the country by investing in infrast programs. The So far it has been funded with loans from the World Bank and programs. In Rio de Janes

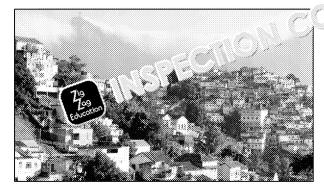
favelas, specifically improving mobility at a housing and access to utilities. Projects we set the Rochina (Rio de Janeiro's largest favela), to buil a set to other degree over the dual carriageway that cuts to ments were made to streets to improve access and the open sewer that runs through the favela was to be covered.

The second phase of the PAC programme proposed a cable car for Rochina, but residents fear that it will turn out like the celebrated cable car of the Complexo do Alemão favela, which has become a major tourist attraction yet only serves 7% of the favela's population (despite every resident being offered a free ticket each day). They would rather see the R\$152.2million earmarked for its development spent on sanitation in the favela.

In recent years Rio de Janeiro and Brazil as a whole have experienced financial problems and many planned projects have not been completed. There has been criticism of unnecessary overspending on some projects, like the passarela (the foc bridge designed by Brazil's most famous architect) while the passarela plaza is 12 in benefited, but other favelas in the second to block lined or plaza is 12 in the second to blo

In 2009, vernment announced the **Minha Casa Minha Vida** programme as purpose wes to promote the construction and acquisition of new housing for farmonth, with priority for those on less than R\$1,600 a month. The project aimed west of the city where transport and infrastructure are poor. Families moving frowhere they could use their homes for business purposes have found it difficult to work in other parts of the city. Some properties have already started to fall apa

In advance of both the **2014 World Cup and 2016 Olympic Games** infrastructs implemented, using Public-Private Partnership (when private companies function, such colors, hospitals, roads) to help improve urban facilities. £billions were improving the international airport and transforming the transport network. Decause of the eviction and displacement of urban poor and the demolition of transport routes.



congestion and air pollution connecting Rio de Janeiro planned, many of which was traffic from local roads. It transport system include Bus lines and an expansion (metro). However, because inaccessible land transport flatter wealthier areas of

Rua 4 throu place of the house blam€ numb the lo natio built a where existin resid€ demo block lined 🔻 refurl plazas is 12 m

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CION

Zig Zag Education fop down table (Task 13.3).

Make as many copies as students –Handout 1 er in

| -   | <i></i>                    |   |
|---|----------------------------|---|
| Top down strate n. :  | Advantages of the strategy | ī |
| Growth Acceleration<br>Program, 2007                        |                            |   |
| Minha Casa Leducator Vida,<br>2009                          |                            |   |
| 2014 World Cup and<br>2016 Olympic Cames<br>73<br>Education |                            |   |



# **Lesson 13: Answers**

# Abbreviation of Assessment Objectives (AO):

- Knowledge
- 2. Understanding
- Application of knowledge and understanding 3.
- 4.

## 13.1 Starter

്യാ ation of past knowledge and understanding. AO3 This task\_requires.



(a) AO1

The sustainability stool helps us understand what would happen if one or more (environment, <u>society</u>, or economy) gets <u>damaged</u>, i.e. the stool <u>collapses</u> the

- (b) AO2 Otherwise benefits of economic growth would not be shared equally amon not have the same opportunities or access to resources as today/people would development that affected them/the environment would be damaged – water,
- AO4 Compare what is happening against the principles, i.e. do they balance the and society or do they deliver benefits for all, not impact on future generations, avoid harm to the environment.

## Extension 13.2.1

This is a free thinking exercise – proposals should recognise the importance of balance sustainability – people (fairly treated and benefiting now and in future, the environm

## 13.3 Task

AO3 Mark for application-judge extent town according has been well reasoned: Max

|   |  | 22 |
|---|--|----|
| 0 | no reasoning and the second se |    |
| 1 | Outline's a 1 1 20 5 or disadvantages  |    |
| 2 | t 4 bear advantages and disadvantages with some detail   |    |
| 3 | Description of both advantages and disadvantages and with refer throughout   | 0  |

For example: Scores are indicative – they are a judgement so need to be justified.

| Top down strategy - name and details | Advantages of the strategy  | Disadvantages of the §   |
|--------------------------------------|---|--|
| Growth Acceleration Program, 2007    | Equality – benefits are shared within the local community, e.g. improvements to sanitation, mobility and housing by widening roads to improve access into the favela [S] & [En];  Impact on futher telephones – provided of non-accommodation of the urban poor [S];  Environment – improved sanitation and aesthetics, e.g. creation of open public spaces [En]. | Equality – the benefits as widely shared beyond the where the project has take.g. there are 1000 favelations as the city [S];  Impact on future general function of the favela is e.g. making it a tourist at [Ec];  Public participation – local are not being listened to, initiatives like the cable catourists rather than local |

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| Top down strategy - name and details        | Advantages of the strategy  | Disadvantages of the   |
|---|---|--|
| Minha Casa Minha<br>Vida, 2009              | Future generations – 100,000 new homes for the poorest of the urban poor [S].   | Equality – doesn't help to urb in poor who make make to be participation – per to leave their homes and communities and start as where the building was to place [S];  Equality – people are we because they must now to their work, sometimes distances [S];  Future generations – but were not built well, they last – a waste of money.  Environment – new infrahas to be built and people now travel longer distances [S]; |
| 2014 World Cup and<br>2016 Olympic<br>Games | Future generations — large infrastructure improvements — improved transport not roll with make the city of each you get around in infrastructure, e.g. new stadiums and improved airport will bring more investment [Ec]. | displacement of people demolition of favelas [S]  Equality – the urban poor afford to use the transport obuy tickets to sports e use the airport [Ec];   |

## Extension 13.3.1

AO2 The advantages and disadvantages are labelled as follows Environmental [En]; E

# 13.4 Plenary

This is a free thinking exercise – it is an open discussion so there are no right or wrong justify their reasoning by referring to examples from their knowledge and understand



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# Lesson 14 Overview: Bottom-up soluti



**Learning questions**: What are the advantages and disadvantages of be sustainable megacity?

New key terms: bottom-up strategies

Associated Task Sheet: 14 - pages 4 - 3 7 Associated PowerPoint files school 4.pptx

14.A Pi 🏰 ti ..

ICT – For part 14.2 of the lesson students will need Internet access to the following

- http://www.favela-street.com/rio-de-janeiro/ A project bringing f
- http://www.projectfavela.org/ A project that has created a school
- http://www.favelapainting.com/ A project that decorates building

Or print out relevant pages from the Internet for groups of students to work

Worksheets and resources for photocopying:

| For event | Description  | Page(s) | Photocopies r    |
|-----------|--|---------|------------------|
| 14.2      | Note taking framework  | 228     | Number of studen |
| 14.2      | Briefing template  | 229 –   | Copy duplex. Ma  |
| 14.2      | *Copy pages from Internet for each project if no Internet accusions available to study and account to the study account to the study and account to the study account to the study account to the study and account to the study ac |         |                  |

Other recommend to provide:

Glue Grander or hole-punch to attach worksheets.

# 14.B Individual student planning

Use this section to tailor your lesson plan to individual students in your class

|       | Student(s) | Detail of acti |
|-------|------------|----------------|
| G&T   |            |                |
| SEN   |            |                |
| EAL   | 72.        |                |
| Other |            |                |

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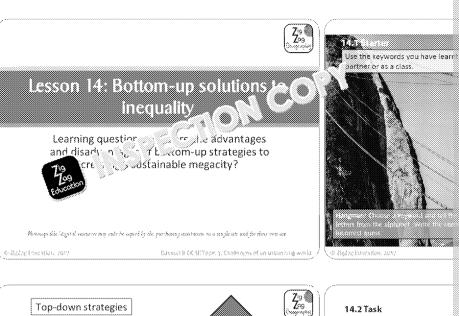


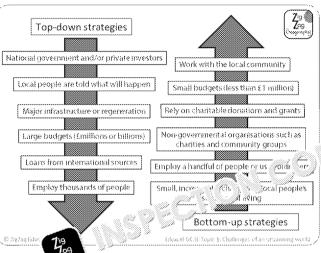
# 14.C Teaching and learning plan

| Suggested  |                                 |   |  |  |
|------------|---------------------------------|---|--|--|
| time Event |                                 | T: instructions   | Student<br>workshee                                      |  |
| 10 mins    | 7.9<br>Education<br>Starter     | Instruction in the unit introduced in previous lessons.  Facilitate the game – it may be useful to have a list of key terms available for students to choose from. Develop understanding by offering definitions for the word and asking students to identify the correct one.  Learning outcome –  All: students know how to spell key terms;  Most: can distinguish the correct definition of key terms.  |  |  |
| 30 mins    | 14.2<br>Task<br>79<br>Education | Instruction to students: working independently research your chosen bottom-up strategy. Make notes about the strategy then complete the briefing for the Governor of Rio de Janeiro.  Teaching strategy — develop student application with a strategy and judgements at the strategy and judge whether it is helping people or not;  Most: understand the advantages and disadvantages of the strategy and judge whether it could make the megacity more sustainable;  Some: make suggestions for how to improve the strategy or alternative recommendations. | Framewor<br>for note<br>taking;<br>Briefing<br>template. |  |
| 10 mins    | 14.3<br>73<br>709<br>Education  | Instruction to students: swap your work with a partner and go through their briefing paper looking for examples of he provide answered the questions. You are judging how well they are investigated the strategy not the facts themselves so don' if you worked on a different strategy.  Teaching strategy in the end understanding of how their work is assessed he provides of good answers and explaining what makes there is outcome.  And: can assess another students briefing;  Most: identify which information is missing;  Some: make suggestions for improvements.   |  |  |



# **PowerPoint Handouts**





Your expertise is gended to brief the quality of life in the megacity.

Use the internet or the resources prostrategy used by community and non-

issess the impact of the strategy on

- our briefing should do the following Y. Explore why it is important that modification of the strategy you have investigated. Describe the advantages of the strategy strategy could be into the strategy could be into the strategy of the st

- strategy work elsewhere if you didn' strategy and say why it would help in

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## How to do it...

tise the internet to find out about one particular strategy in Rio de Janeiro You can start at any of the following sites or find vour own example.



The first of the second second

http://www.projectforeie.

© Zigliog Sciverskom, 5047

SAN TOOK 1 TO BE WAS

# Find out ...

- How does the strategy help im
- Who is in charge, e.g. a charity government?
- Who is involved in making it he people from other countries?
- What aspects of sustainability
- What aspects of sustainability.

Econom

## Tips ...

use the note-taking framework to help you collate the information you

Then use the sustainability **30) or quadrant** to help ou assess whether the categor will make the niégocity sustainable.

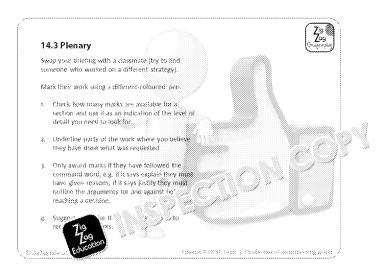
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# Task Sheet 14: Bottom-up solution



**Learning questions**: What are the advantages and disadvantages of businessis businesses with the substantage of businesses and disadvantages of businesses are disadvantages and disadvantages of businesses are disadvantages.

New key terms: bottom-up strategies

# 14.1 Starter

Use the keywords you have reported far in this topic to play (100 kg) in with your partner (100 class).

Hangman: Choose a keyword many letters it has. The audie alphabet. Write the correct le line of the gallows for each in

# 14.2 Task

In contrast to the **top-down approach** to development where regional, nations fund and lead change, a **bottom-up approach** involves local communities and (e.g. charities, not for profit and ordinary businesses). Experts may be involved ground, but the success of such projects is usually in the hands of local people making it happen. Sometimes local businesses may provide funds and support for micro-credit schemes, grants or charitable donations. Individuals can access them make improvements to their homes or set up their own businesses. The incremental changes that empower people who might otherwise find it hard a schemes that bring together people with similar needs and/or businesses that

# Case Study – LIGHT SA

LIGHT SA is Brazil's fourth largest energy company and a major supplier to the population of Rio de Janeiro (app. 14 Junon). Until 2008 the company substantial losses from the tight (64.1% of supply being taken by illegal within Rio de Janeiro (e.us). There was a lack of trust between the compacustom (1931) propie were willing to risk their lives by connecting up illegal the elect.

With the advent of the Unidade de Policia Pacificadora (UPP) – Police pacifying developed new initiatives to provide reliable and affordable electricity to favor good business sense. They invested 0.5% of annual profits in an energy efficiency people in the favelas to replace old and inefficient electrical appliances with Having an electricity bill means that residents of the favelas can now open be and economic opportunities that were not available to them before (utility be provide proof of your identity and address). They also developed an education who to reduce the amount of electricity they used, making their electricity be electricity more affordable and more difficult to steal they rebuilt customer the living conditions for people in the favela and reduced levels of theft to 1

Your expertise is needed to brief the Governor of the Janeiro on a new way megacity. Use the Internet or the ros and provided by your teacher to **inve**sused by community and not give a pental organisations in Rio de Janeiro. As the sustainability of the party.



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# Your briefing should:

- 1. Explain why it is important that quality of life should improve;
- 2. Outline the strategy you have investigated;
- 3. Describe the advantages of the strategy in creating a sustainable megaci
- 4. Explain the disadvantages of the strategy in creating a sustainable megacon
- 5. Suggest how the strategy could be improved;
- 6. Recommend whether the strategy you have invering ed should be replicated.
- 7. Say what the next steps should be. If you is more and the strategy say strategy work elsewhere. If you is a economic mend the strategy then make and say why it would be transfer a quality of life which achieving sustains

Use the Internet of the strategy in Rio de Janeiro. You sites or The strategy in Rio de Janeiro. You sites or The strategy in Rio de Janeiro.

| http://www.favela-street.com/rio-de-janeiro/ | A project bringing footba  |
|--|----------------------------|
| http://www.projectfavela.org/                | A project that has created |
| http://www.favelapainting.com/               | A project that decorates   |

First you will need to find out:

Rather than type out t

- How does the strategy help improve quality of life in the megacity?
- Who is in charge, e.g. a charity, a local community group, the Brazilian G
- Who is involved in making it happen, e.g. volunteers, local people, or quality
- What aspects of sustainability do you think the strategy covers?
- What aspects of sustainability do you think the strategy doesn't cover?

Use the note taking framework to help you collate the information you will no

Then use the sustainability stool or quadrant to he seess whether the st sustainable. Make notes about what you have for soout (you can use the note write your brief. You can use the provided to help you struct

# 14.3 Plenary

Swap you fing with a classmate (try and find someone who worked on a using a discount coloured pen:

- Check how many marks are available for a section and use it as an indicate to look for;
- 2. Underline parts of the work where you believe they have done what was
- 3. Only award marks if they have followed the command word, e.g. if it says reasons, if it says justify they must outline the arguments for and against
- 4. Suggest what else they could have done to receive more marks.



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# Framework for note taking (Task 14.

Make as many copies as students-Handout 1 each

# Notes on a bottom-up strategy in Rio de Ja

Name of strategy:

How does the strategy help improve and ty of them the megacity?



Who is in charge, e.g. a charity, a local community group, the Brazilian Gov

Who is involved in making it happen, e.g. ye anve s, local people, or qualif



What aspects of sustainability do you think the strategy covers?

What aspects of sustainability desical the strategy doesn't cover? 



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# Briefing template (Task 14.2).

Copy duplex - Make as many copies as students- Handout 1 each





# Briefing for the Governor of Rio

|    | Author: [  |
|----|--|
| 1. | Introduction (briefly say why the strategy you are investigating will help improve qual  |
|    |  |
|    |  |
|    |  |
| 2. | The strategy (In y is vn ), is riefly describe what the strategy is doing, who is in c   |
|    | fron ho is involved, e.g. staff or volunteers)   |
|    |  |
|    |  |
|    |  |
|    |  |
| 3. | The advantages of the strategy (Explain which aspects of the strategy are in line with the concept of susta environmental, economic and social benefits) |
|    | <u>.</u>   |
|    |  |
|    |  |
|    |  |
|    |  |

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# 4. The disadvantages of the project (Explain which aspects of the strategy sustainability – or what parts are missing) 5. Could the project be improved in future? (Identify any problems with how you would make it better) **6. Your recommendation** (Justify your decision by giving reasons why you public money) I recommend that this strategy should's or **COPYRIGHT** 7. Next steps (If you recommended the strategy say what you are going to **PROTECTED** elsewhere in the megacity. If you didn't recommend the strategy then su making the megacity sustainable and improving a like of life). s to improve your work:

# **Lesson 14: Answers**

# Abbreviation of Assessment Objectives (AO):

- Knowledge
- 2. Understanding
- Application of knowledge and understanding 3.
- 4.

## 14.1 Starter

AO1 & AO2 Students could al , key terms introduced through learning so far

|   |   | _       |
|---|---|---------|
| Lesson                                    | Lesson 2                                  | 000000  |
| ■ Ur Section "                            | <ul> <li>Megacity</li> </ul>              | 000000  |
| <ul> <li>Urbansation</li> </ul>           | World city                                | 0000000 |
| <ul> <li>Global region</li> </ul>         | Urban primacy                             | 2000000 |
| <ul><li>Population size</li></ul>         | ■ Primate city                            | 2000000 |
| <ul><li>Population distribution</li></ul> | Economic influence                        | 000000  |
| <ul><li>Growth rate</li></ul>             | Political influence                       | 000000  |
| Lesson 4                                  | Lesson 5                                  |         |
| <ul><li>Urban economy</li></ul>           | <ul><li>Spatial growth</li></ul>          | 1000    |
| <ul> <li>Informal employment</li> </ul>   | <ul><li>Suburbanisation</li></ul>         |         |
| <ul> <li>Formal employment</li> </ul>     | <ul> <li>De-industrialisation</li> </ul>  | 0000    |
| <ul><li>Economic sectors</li></ul>        | <ul> <li>Counter-urbanisation</li> </ul>  | 0000    |
| <ul> <li>Economic structures</li> </ul>   | ■ Regeneration                            |         |
| <ul><li>Working conditions</li></ul>      | <ul><li>Urban sprawl</li></ul>            |         |
| <ul> <li>Tertiary sector</li> </ul>       | ·   |         |
| •   |   |         |
|   | #   |         |
| Lesson 7                                  | Lesson 8                                  | T       |
| <ul><li>Site</li></ul>                    | Urgan tripaure                            | 100     |
| <ul><li>Situation</li></ul>               | l and use                                 |         |
| <ul> <li>Connectivity</li> </ul>          | Development                               |         |
|   | Land use zones                            |         |
|   | Building age                              |         |
| 79  | • CBD                                     |         |
| Education                                 | <ul><li>Inner city</li></ul>              |         |
|   | Suburbs                                   |         |
|   | ■ Urban-rural fringe                      |         |
|   | ■ Urban model                             |         |
| Lesson 10                                 | Lesson 11                                 | T       |
| <ul><li>Economic change</li></ul>         | ■ Inequalities                            |         |
| <ul> <li>Access to resources</li> </ul>   | Quality of life                           |         |
| <ul><li>Employment</li></ul>              | Standard of living                        |         |
| Service provision                         | Life expectancy                           |         |
| <ul><li>Housing shortages</li></ul>       | · ''                                      |         |
| <ul><li>Water supply</li></ul>            |   |         |
| <ul> <li>Waste disposal</li> </ul>        |   |         |
| <ul> <li>Working conditions</li> </ul>    |   |         |
| Living conditions                         |   |         |
| <ul> <li>Urban infrastructure</li> </ul>  |   |         |
| <ul> <li>Traffic congestion</li> </ul>    |   |         |
| Lesson 13                                 | + (-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1 | _       |
| Sustainable development                   | 1   |         |

- Sustainable developme
- Top-down strategies

# 14.2 Tas

AO4 This task will be subject to peer assessment during the ple

# 14.3 Plenary

AO3 Students should peer assess one another's work. Credit 1 mark for each point scheme given on the template briefing paper. You may wish to formally mark the

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