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Teacher's Introduction

This resource has been developed to provide case studies and exam preparation material to support the GCSE Edexcel A specification (1GA0) **Topic 4: Changing Cities**.

This detailed case study is on **Nairobi, Kenya** representing a country with **low human development** based on the Human Development Index (HDI) classifications.

The case study includes a main content section which can be used as part of a lesson plan or distributed to students for self-guided research; a selection of ICT interactive links to further students' research around each topic and a set of Springboard Images and discussion questions (also available as a PPT file accessible by digital download) which makes a fantastic starter activity.

A webpage containing all the links listed in this resource is conveniently provided on ZigZag Education's website at zzed.uk/8822



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

The exam preparation section which follows the case study contains a summary table, bringing together all of the key facts and figures relating to the case study; rapid-fire revision questions (with answers) to help recall and retention of the main points; and an exam-style question and mark scheme, written in the style of the Edexcel A sample material, so that students can practice answering questions relating to case studies and applying relevant knowledge in their answers.

The resource may be used as a source of reference for the required case studies for individual study, or for group work leading to discussion or debate. Subheadings in the information sections are designed to enable tabulated comparisons of social, economic and environmental impacts.

Two other detailed case studies are available for this topic area representing countries with different levels of development:

- Bristol, UK (HHD)
- São Paulo, Brazil (HMHD)



A PowerPoint presentation containing the Springboard Images starter activity to accompany this resource is available as a free digital download. Just register for free updates using the link below to download all available content for your school or purchasing site.

November 2018

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Nairobi, Kenya (LHD)



Part 1: Case Study

Background

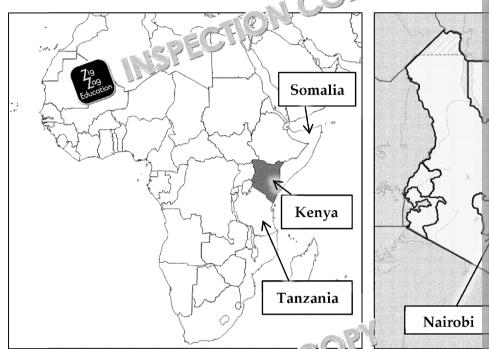


Figure 1: Map showing the location of Ken and h. fe

Figure 2: Map sho

Nairobi is 79 pi i Ly of Kenya, a coastal country in east Africa. With a million pec reduced airobi is a major city in both Kenya and Africa.

It is in the central area of the country. Kenya itself is bordered to the east be Ethiopia, to the north-east by South Sudan, to the west by Uganda, and to t

Nairobi is named after the Nairobi River which flows through the area. It is in a mountainous region, and being at high altitude – 1,670 m above sea level – means that the air temperature is cooler here than in many parts of Kenya. Before settlement, the area was marshland. While the ready supply of water was vital for the growing city, the land itself has been hard to build upon, and standing water has a intermediate in many outbreaks of malaria.

Did you know...

The name 'Nairobi' con : In of e rlaasai name for the site: 'Enkare Nyirobi', will an 't cool waters'.



Figi

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Connectivity

When it was founded, Nairobi was a key route between the coastal port of African areas. Today, Nairobi is still very well connected. It has one intern Kenyatta – and two domestic airports. Rail connections are outdated, but t maintained, and connects the city to the coast and neighbouring countries (

Significance

Nairobi is the political and cultural certificity, as this was where the fuelled by the **Mau Mau upricing** ed, and where the government is boost to many cultural is a like The Kenya National Theatre and the

It is the rice ea in Kenya, and people living here are more likely to have than in other regions. For example, in Nairobi, less than 20% of households housing in 1999, whereas in the coastal areas of Kenya over 80% of people living in 1999, whereas in the coastal areas of Kenya over 80% of people living here are more likely to have than in other regions.

Nairobi is a significant regional capital in Africa. **It is the base of operation companies** (TNCs), such as General Electric, Google, IBM and Coca-Cola, a **United Nations'** (UN) African headquarters. This reflects its economic implangest and busiest **stock exchanges** in Africa.

Growth

History

The city itself is relatively young, being founded in 1899 as a **rail depot** by was under **colonial rule**. The only structures built was or the British rail. African and Asian labourers had to build their on houses around the outs



gare 4: Population growth in Nairobi from 1906 to 200

Growth in greatly took off in the 1960s, as the first **democratic** election 1961, and the country became independent in 1963. The current growth rat population was 350,000 in 1962, but had swollen to 3,138,368 in 2009 (see Fi population lived in Nairobi itself in 2005.

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Causes of growth

One of the main causes of Nairobi's growth in population is **natural increas** are very high, partly due to low **contraception** rates, low uptake on education cultural traditions which value large families. However, recently birth and which reflect the increasing **development** and changing culture in Kenyachildren if they are not working in agriculture, women as e more likely to he contraception is increasing.

The poor develope to the rural areas to the city in search of better or more and explained higher standard of living. The government focus their ecoprogrammes on urban areas in Kenya, meaning that large cities like Na prospects than rural areas.

The recent growth of Nairobi has in part been due to changing migration men were allowed to migrate in Kenya, meaning that whole families consearch of better lives, and so men went to cities to work temporarily and 1963, women and children were allowed to migrate too, meaning that move to cities

Rural

e.g. Nyanz



Pu L ractors

- Job Tural areas are lower paid, as they tend to be in agriculture
- There are fewer jobs in rural areas as farmers have agricultural machinery now
- **Infrastructure** and access to services is poorer in rural areas
- Access to education and healthcare is low
- International migration

Nairobi is a migration destination for many courses in Africa, including: Somalia, Ethiopia, Sudan, Pwands Su Uganda. This is partly due to the great wealth in the interior in and also the economic success of Kenya and the collection of the Kenyan government. The some for economic reasons, but also to flee conflictions in their own countries.

A sizeable minority of Nairobian residents are from Europe – these are may have been attracted by the business prospects or favourable clima usually live in segregated areas, and send their children to international

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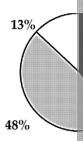
of [

Nairobi also finds itself the source of many international migrants, as Is move to other countries in search of high wages or more opportunities abroad. This phenomenon is called **brain drain**, and has a negative in economy.

Impacts of migration

Age structure

Most people who migrate to Nairobi from ruce are young people, looking to earn morey to port parents in villages, or to continuous families in an argument of his better quality of life. This means Nairobi sa youthful population (see Figure 1991) de la much of Kenya.



Figure

Housing

Migration puts extreme pressure on housing in Nairobi, both the availability of housing and the prices of housing. Ricup property in the city centre or suburbs, driving up prices and meaning housing for lower-income residents. Additionally, the migrants who okenya also need houses – it's estimated that 100,000 move to the city exthere are not enough houses to meet this demand, and especially not extra causes people to have to live in informal settlements around the

Ethnicity

Many people who live in Kenya belong not only to the country, but to belonged to. Nairobi, as the capital city, contains people from all around different tribes. For the most part this is a peaceful coexistence, but the people from the Kikuyu tribe and the history of Principles to colonists forcing sometimes causes ethnic tension and violent in the city.

Services

Increasing rural-urban is rational nas put pressure on the city authoriti residents. This principle can to poor planning by the city government, black of the city people are forced to live in squatter settlements a sanital country. Hospitals in the city report running out of medicannot properly teach classes as there are too many students in them.

Urban sprawl

Increasing rural-urban migration has also caused the city to grow, as cagrowth of the city has caused tensions with Maasai peoples to the south encroaches on their land.

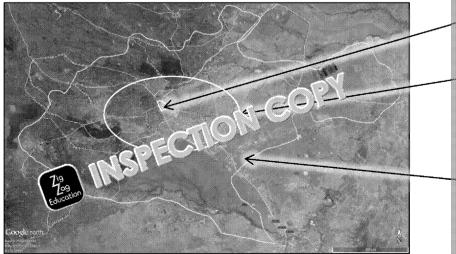


Figure 6: Map showing Nairobi in 2015 ©2015 Google. Image: ©DigitalGlobe ©CNES/Astarium

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Nairobi is like many other large cities, in that the middle and upper classes consumption, spending their **disposable income** in shopping malls and cin music, coming from America in the 1990s, is influential in both fashion and an economist at the Institute for Economic Affairs, says growth in the leisure sectodemand from a growing middle class.'

There are many different ethnic groups living at (a) bit which is reflective makeup of Kenya as a whole. Some contact the Kikuyu (the dominar Lamba peoples, as well as peoples, as well as peoples) as the Kikuyu (the dominar Lamba peoples) as well as peoples as

This mix of ic is ambined with Kenya's colonial history and internated the mixing ist, has contributed to a 'melting-pot' culture in the city.

Challenges

Housing

The rapidly expanding population means that there is a drastic housing sho more houses are being built by the city authorities, this is often not low-cos arriving from rural areas, who are forces people to live in **informal housin**;

In Nairobi, there are 2.5 million people living in 200 different **squatter settl** population of the city living on only 6% of its land! Kibera is one of those s

Kibera





Figure 7 Location of Kibera ©2015 Google. Image: ©DigitalGlobe

Figure 8: A

Kibera has been called the biggest slum in Africa. Over 280,000 people live in the them live on legal land. Their housing situation is dire, and there is no power, resanitation in many of these shacks, and people must pay £6 a month to a landlore

Housing	Up to eight people can live in a small 12 ft $ imes$ 12 ft shack, built w
	It costs around £5 to hook a shack up with electricity, an expen-
Electricity	Although a UN scheme is working on providing electricity, curre
	power supply.
Clean water	While residents used to get the value from the polluted Nairo
Clean water	water pipes in the area. C of a ay around two pence for 20 lit
Sewerage	No flushing to i a multi-latrines, which must be emptied by h
Sewerage	to care wyseto the river. There is one latrine for 50 shace
Health	Micrealth care provision and residents cannot afford to p
7.9	schemes are run by national and international charities.
Unemple Education	Half of the people in Kibera don't work, despite living near to or
Onempic	industrial areas.
	There are many sources of conflict in Kibera; between those wh
Crime	not, between landlords and tenants, and between different ethni
	problem in Kibera, and contributes to high crime rates.

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Services and infrastructure

Health care

Health care is improving all over Kenya, thanks to increased spending. However, health care is improving much slower in urban areas like Nairobi than rural areas. This is because of the large populations that live in squatter settlements in Nairobi.

Some diseases that affect Nairobi

- HIV/AIDS Nairobil as a lighter rate of infection than the country there are more of a ving in a smaller area.
- M 79 a. I argue fever are a big problem in the poorer areas of st. 200 water around the rivers. Both of these diseases are spread

Health care is much more of an issue for those living in squatter settled have money to pay for medicines and treatment, but they are more like environmental hazards like unclean water.

Education

Water 79

Although primary school education is free, many children in Nairobi d may be other fees, such as uniform, transport and books, which childred can't afford. Some children may be forced to stay at home to help out or to work to earn money so the family can buy food. Secondary school wealthiest of families, and there are no secondary schools in squatter so go to school, they can't gain skills that will help them get a well-paying be trapped in a **cycle of poverty**.

The lack of education provision is caused by the grachools lack facilities and teach y so the income families often send the schools, as these have the schools.

One of bi's most enduring problems has been infrastructure. Lack of clean water supply and poor drainage solutions contribute to problems with pollution, contamination and disease. While there are pipes for water in some areas (see Kibera above), many people in Nairobi buy bottled water from kiosk sellers, which is expensive. There are also problems with leakage and illegal tapping of water pipes: 40% of all water produced in Nairobi is

wasted in this way. The regions where Nairobi sources its water from water scarcity, and to have such high levels of wastage, combined with and metering, is dangerous for the environment and long-term prospections.

The sewerage network in Nairobi is patchy. In the most affluent areas, sewerage systems, while in most of the city's patched is just open channare no sewers at all (see Kibera above)

Energy
En

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To cope with the energy issues, here's what people do:

- High-income families and most businesses have back-up generators that run on petrol. These are expensive, and contribute to air pollution.
- Low-income families charge their phones at public stations, cook on stoves that burn wood or charcoal, and use kerosene (a type of petrol) lamps for light. The at we cause poor air quality in home, and kerosered to be a explode unexpectedly.

Crime is a min Nairobi, including hijacking of vehicles, theft and gardue to the high levels of **poverty** and deprivation: often people feel that the engage in crime in order to earn a living. This is exacerbated by the fact that rate is very high in Nairobi: over 40% of 15 to 24 year olds don't have a job. Development Goals have demonstrated the need for education and training in order to escape poverty and foster development, many young people cannot afford schools, and without a job, young people lose hope. This is especially important because by 2030 it is predicted that two-thirds of the population of Nairobi will be less than 25 years of age.

Over one million people in Nairobi work in the **informal sector**, and wome informally than men. The number of informal workers is growing, in part forces those already living in cities to make a living conductive to the city from rural areas with the formal economy. Children are often employ to the informal sector, which disru

Jua Kali
500,000 on provide a range of services to residents in the city.
Jua Kali may make products from waste, repair items, and provide services. They are respected for their creativity, and many aspects of Nairobian life would not function without them. However, their work is insecure, as the government. Their informal status also means less protection for the consumer – Jugood, but breaking once the customer walks away!







Fig. 1. Lages of Jua Kali crafts, services and stalls

Some Jua Kali by recognised by the Nairobian authorities, and pastalls are not being they can experience being asked to move away from areas and results in the service – perhaps selling lunch to office workers – not being management and integration of the Jua Kali by the city authorities would he temporary land use rights.

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For those who do work in formal industries in Nairobi, such as textile factor tough. Strict laws mean that these workers may find it hard to campaign for are often not allowed by the city government.

Transport issues

Congestion in Nairobi is a significant problem, as the transport infrastructure network cannot keep the growth of people and traffic.

In recent years the governous attempted to combat the congestion and the city, but crucially the roads, and there has been insufficient investment in public transport.



F

Public transport in the city currently does not have good coverage, and one third of commuters use private minibuses called Matatus. Matatus are often elaborately decorated by their owners, but have a poor record for safety.

Key facts

- The number of vehicles in Nairobi doubles every six years.
- It is estimated that there is a loss of over £200 million each year in working hours lost, fuel used up and pollution emitted.
- In 2015 there was a traffic jam in Nairobi that lasted for 30 miles!



Fig

Environmental issues

Water pollution

The lack of property at ion services has meant that the Nairobi River as an area of the city's history. Human excrement and waste firiver, value it mixes with industrial waste due to Kenya's low environ water in the river is so polluted it can support no life, and is a danger to people in the past have obtained their water from it. A lack of river matthe river floods, the pollution is spread through many of the squatter services.

Air pollution

Air pollution in Nairobi is a real issue. The amount of particulates in the air is double the WHO guidelines, and the amount of cancer causing particles is nearly ten times higher than WHO guidelines. Such poor air quality has negative health impacts and can cause lung and breathing conditions, heart disease and cancer. Most at risk are the cancer with on Nairobi's



Figure 14: C

Although Kenya has made steps to combat the air pollution by banning still have a long way to go in combatting air pollution: partly because r they can't be sure of the scale of the problem, and partly because of the air pollution.

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In Nairobi, it is not only emissions from cars (most of which are second from diesel generators used when electricity runs out, diesel lamps, and homes to cook and eat. These stoves use cheap fuels like wood and coaquality. They are especially common in lower-income areas, meaning heavily linked with poverty.

Waste disposal

The rapid population growth in Nais is ans that the city council do equipment and expert staff to it with the waste management issues is collected in any and it is rapidly filling up, meaning maillegal in the city. Dandora, and it's rapidly filling up, meaning maillegal in growth in growth in the city. Those living close to dumping stresidents, and they can experience health issues as a result of the gases 50% of the waste generated is organic matter, which could easily be contained in the city.

Sustainable Management

One area of sustainable management in which Nairobi excels is informal rescavenge in waste tips for materials which may be re-sold. The Jua Kali crare-purposing of waste material and selling it to tourists. While those who comarginalised by the government, recent aid projects have tried to increase the Worldbike is supporting recycling efforts by providing local people with mocollect waste from people's homes: meaning it can be sorted and separated and earning the collectors extra income. The rubbish collectors charge only they can invest in repairing the bikes and publicising the provided in the projects. This proposes in the projects have tried to increase the worldbike is supporting recycling efforts by providing local people with mocollect waste from people's homes: meaning it can be sorted and separated and earning the collectors extra income. The rubbish collectors charge only they can invest in repairing the bikes and publicising the projects have tried to increase the worldbike is supported to increase the wo

Urban Greenspace

The city has many we'll ve green spaces, such as the point in all Park. Many of these only exist a point work of individual people, such as Wallari Maathai, who won the Nobel Peace Prize in 2004 for her work protecting Uhuru Park from urban expansion. Uhuru means 'freedom' in Swahili. She did this through promoting tree planting schemes, and empowering local women to take ownership of the forest.

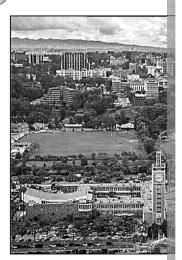


Figure 15: Nairobi Nationa

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Fact Table

Population	3.36 million people
Predicted population by 2025	Five million (e) (e)
Population density	ople per square kilometre
Growth rate	4.1%
Access to 79 r in Kibera	20%
Birth rate	32 children per 1,000 people
Infant mortality	49.7 deaths per 1,000 live births
Child mortality	93 deaths per 1,000 live births
Malaria prevalence	37.7% of the population infected with
Poverty rate	22% of the city's population lived in ex
Illiteracy rate	7.8% for women and 5.8% for men (cor and 12% for men in the country as a w





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Key terms

Altitude	Height of the land above sea level
Birth rate	A measure of the number of live births per 1,000 p
DII III 141C	year (%)
Blackout	A common name for To t power
Brain drain	Process v.'. 1 (c) leated people from a developing
Diam diam	to her paying work abroad
79	process where a global power settles in and cont
Colonial 709	another country, making that land a colony and of
	to submit to the rule of the global power
Congestion	The slow-flowing of traffic, caused by a large amo
	transport capacity
Contamination	When clean safe land/objects are touched by pollu
Contraception	Medicines and items that are used to prevent preg
	transmitted diseases
Cycle of poverty	Where many generations of a family are unable to
Democratic	A system of government where ordinary people h
	is run. Usually this involves voting to elect leaders
Development	A process that a country goes through which increfor its inhabitants
Duomalat	
Drought	A lack of water caused by love ecipitation
Fertility rate	A measure of the nur oc o I ve births per 1,000 v
Formal economy	Business action no transactions that are official region
Tormar economy	10.1
Generate 79	Equipment that burns fuel (usually oil based) to m
Education Education	The use of heat generated by Earth, usually via ste
Geothermal energy	This is used in tectonically active regions
Hydroelectric	The production of power, e.g. electricity, through t
power	falling water
•	Business activities and transactions that are not off
Informal economy	contracts or regulations
Informal bassis	Areas of housing that are unregulated and may be
Informal housing	settlements or occupation of abandoned housing
Infrastructure	The services and structures needed for society to f
Jua Kali	Kenyan craftspeople
Maasai	Indigenous people (tribe) who inds stretch acros
iviaasai	northern Tanzania
Malaria	Disease spra a species of mosquito in tropica
	pot ally ceath
	resellion against the British colonial powers in k
Mau Ma 79 in 3	independence in 1963. 'Mau Mau' was an informa
Educac	indigenous Kenyans who formed the Kenya Land
Migration	The change in residence of an individual or group
	either permanent or semi-permanent

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Natural increase	Birth rate is higher than death rate	
Pollution	Particles emitted/released by human activity that can dam	
Tonucion	environments and human health	
Poverty	A person living with a low income, with a poor quality of	
Toverty	living. Often defined by living on under two USD a day	
Rail depot	A station where cargo can be changed between trains, and	
Kan depot	repairs	
Rural-urban	The movement of people from the countryside to cities as	
migration	push and pull factors	
Sanitation	Systems of managing and di po ir sof waste and excreme	
Samation	protect human healt	
Sewerage	Pipes and em. wat take away sewage (human waste)	
Slum / Squatter	Life has a mat is illegitimate; people have built houses ill	
settlement 700	fe - services and there may be overcrowding	
Stock Exchange	A market for financial goods like shares and investments	
Sulfur	A chemical that is dangerous to human health and the env	
Trans-national	A firm that has operations in more than one country, e.g. 1	
Company	manufacturing in China, sales in Europe. Often make a lo	
Company	very powerful. Abbreviated to TNC	
United Nations	An international body aimed towards world peace and int	
	cooperation. It aims to promote development. Abbrevia	
Water scarcity	The area does not have an adequate and reliable supply of	
WHO	World Health Organization, a branch of the UN which dea	
	health issues	
Disposable income	The 'take-home-pay' that a person receives after taxes have	
Ethnicity	A group that is connected by shared curral characteristic	
Limiterty	language or religion	
	language or religion	
719		
Educati	§ 9	



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ICT interactive page

Rather than type out these we

Videos:

- https://www.youtube.com/watch?v=QJNNrktts4s
 Want to know about culture and immigration ir in robi? Watch this
- https://www.youtube.com/wata' (1) idsKE61_EI
 A guided tour of the cit
- https: 79 .y atube.com/watch?v=KUid4Td4cCU

 A case toward from the World Bank on bringing electricity to squatter se
- https://www.youtube.com/watch?v=NYWnq4p2OBY
 An unusual pupil takes up the Kenyan Government's offer of free prin

News Stories:

- http://www.bbc.co.uk/news/world-africa-33578890 A shopping mall in Nairobi reopens
- http://www.theguardian.com/global-development/2015/jul/23/nairob dispensing-machines-infrastructure-twitter The challenges of encouraging development in the settlements.
- http://www.theguardian.com/t/16 levelopment/2014/oct/29/nairobland-rights

 Women m settlements stand up for their rights.

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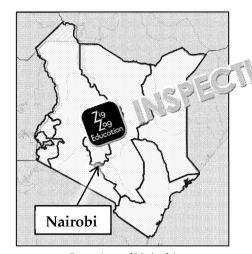


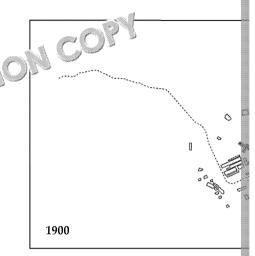




Springboards

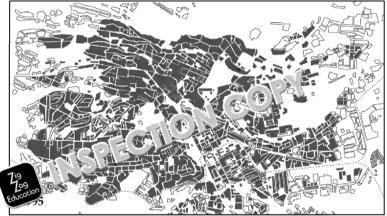
Growth





Location of Nairobi

Nairobi in



Nairobi in 1995

- 1. Why is Nairobi situated where it is?
- 2. Describe how Nairobi has grown.
- 3. Why has Nairobi grown so fast?

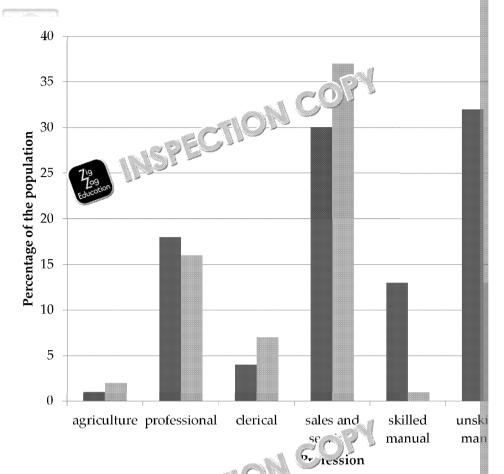


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Opportunities



1. Describe what sort of professions men and women are likely to have in

Employment in Nairobi in 2004

- 2. Can you explain the differences between men and women?
- 3. Why might employment motivate people to move to Nairobi?



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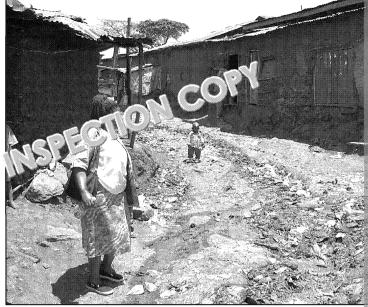
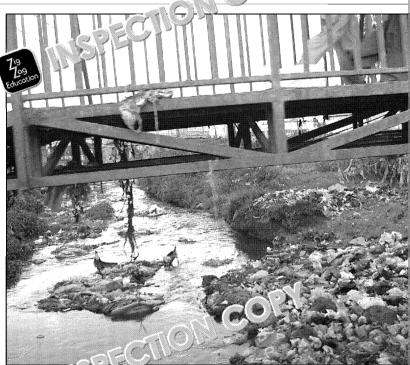


Image of a street in Kibera

- 1. Describe the conditions shown in the photo.
- 2. How could living in Kibera lead to a 'cycle of poverty'?
- 3. If you had to choose, what one thing would you improve about Kibera

Water



The Nairobi River

- 1. What stducation condition is the Nairobi River in?
- 2. Why is this?
- 3. Why is this a problem?



Quote 1: Rethinking management in Nairobi's info

Nairobi is experiencing rapid urbanization which brings with it several challenge groups have responded to the lack of public services, including waste managemen by the absence of the state or other private institution. See work has profound citizens, however, due to the age-old practi a a. d simplicated, in some cases no the city council, they often fall shows to be soping their full potential.

Quote 2: Worldbike.org

Worldbike has partnered with UN Habitat to evaluate bicycles and other forms low-cost solutions for Kibera, the largest slum in East Africa. Worldbike is collab Group to develop bike-based technologies and business models that empower local while simultaneously helping address the trash problem.

Quotes about Waste management in Nairobi

- 1. How do people in Nairobi dispose of their waste?
- 2. How does Worldbike help with waste management?
- 3. Why is Worldbike needed to help waste management?
- How can waste management be improved?





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Springboard Suggested Answers

Springboard	Q	Suggested answer / discussion
		It has a cool climate (high altitude)
	1	It has plenty of water around fc vater supplies
		Key transport route by tell oastal ports and east A
		It has grown in id it central point
Growth	2	• Lots is the has come from informal settlement
Glown		a the on the side of the river)
710		Growth has been blocked to the south by the Nationa
709 orion	193	Mostly from rural-urban migration
Educa	3	Natural increase in squatter settlements as birth rates
		International migration: mainly from Asia
		Not many people work in agriculture
		• It is mostly men who work in the secondary industry
	1	• It is mostly women who work in the domestic service
		• Sales and services employs the highest % of women (
		Unskilled manual employs the highest % of men (over
		It is a traditional society, where men are expected to
		women work in domestic services
Opportunities	_	• Very low proportions work in agriculture as it's a city
	2	The secondary industry is low because Kenya is not.
		manufacturing capacity
		• Services industry is high because there are a lot of pe
		People who don't want tr
	_	More professional ar This skilled jobs than in rural
	3	More lit i
		• I ky w be better paid
	4.16	There is litter on the unpaved streets
79	٠,	Houses are built from mud with tin rooves
Education	1	No water pipes: water is just draining into the street (
- reference		No electric lights for the street or power cables at all
		Definition of the poverty cycle
		• If you lived here, you probably wouldn't have a lot o
	2	If you lived here, it might be hard to go to school, so
	_	good job
		You might get sick from the poor environmental con-
		It's not very safe, so you might be affected by crime
Kibera		 Housing: If the housing was improved or replaced th
		space and their houses would be safer to live in
		Land rights: If people were entitled to live on the land
		improve their houses: at the morrent they might not
		evicted
	3	Water: If there wa c. ar ater then people wouldn't
		Education proper were educated they could get be
		10 Jaway or improve the area
	1/10	Electricity: If there were street-lights then there would
799		wouldn't have to cook with dirty fuel in their house
Education	7	Waste management: if there were proper waste collections
		people wouldn't get sick and this would be a nicer p

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	1	It is in a very poor condition: there is waste in there fLikely to be no wildlife
		No river management, so if the river floods then it w
		homes
		Because there is no proper waste management: every
Water	2	Because there are no property to protect it and per
7.000	_	dumping things it there
		Because 1 2 30 1 ment doesn't have the money to 1
		Se Vere aren't that many water sources: people
	3	iver for washing, cooking, drinking
79		Because it may flood informal settlements
Education	9	Because they are damaging the wildlife habitat
The second of th		Informal settlements: dump on streets / in rivers (lots)
	1	reusable material)
		Formal settlements: pay for private collectors to mov
		They give local people in informal settlements ways
	2	other vehicle), which gives people jobs and an incom
		waste collection service for very low cost
		Because the government and city authorities don't have
Waste		services
	3	Because the city authorities aren't dealing with the property.
		(unwillingness/inefficiency)
		Because waste management is a real problem in the a
		By making the city authorities cooperate with efforts
	4	By providing funding
		By supporting local r of e 1 involving them in the
		sustainable)
		By a act i breople as to its importance
Zio Education		





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Part 2: Exam Preparation



Summary

Nairobi, Kenya

	Background
Altitude	1,67°) sea level
Physics'	gn altitude means cooler temperatures
geograph 799 xt	
Connectivity	Three airports
	Crucial link with the coast
	Nairobi is the Capital City of Kenya, East AfricaNational cultural focus: seat of government, city cultur
Significance	 Regional economic hub: the base of UN operations in A
	regional headquarters
	Growth of the city
	• Founded in 1899 as British rail depot: good connection
History	• Explosion in population from 1960: from only ¼ millio
	today
	• The growth rate is over 4.1%
Causes of growth	Natural increase from high birth rates Demostic rural urban migration mostly economic real
Causes of growth	 Domestic rural-urban migration: mostly economic reas 1960s immigration from Asia
	Immigration from unstable tris in east Africa
	Youthful age structure
Impacts of	Pressure or tou) band services
migration	• Fil- con lit
	o sprawl
79	Ways of life in the city
A	
American Education al	Shopping malls, hip-hop music
features	Shopping malls, hip-hop music
	Kikuyu are dominant group but there are immigrants and
features	Kikuyu are dominant group but there are immigrants and Challenges
features	Kikuyu are dominant group but there are immigrants and Challenges Housing shortage for migrants leads to expansion of so
features Ethnic diversity	Kikuyu are dominant group but there are immigrants and Challenges • Housing shortage for migrants leads to expansion of soliving in these in Nairobi
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features Ethnic diversity Housing	 Kikuyu are dominant group but there are immigrants and Challenges Housing shortage for migrants leads to expansion of soliving in these in Nairobi Kibera: biggest slum in Africa, small shacks, only 20% improvement to water source (taps cost two pence for unemployment Water: poor water supply means most people either drat kiosks, lack of sanitation means people dump refuse Health: malaria is a big problem: 37.7% infected in 2006
features Ethnic diversity Housing Services and	 Kikuyu are dominant group but there are immigrants and Challenges Housing shortage for migrants leads to expansion of soliving in these in Nairobi Kibera: biggest slum in Africa, small shacks, only 20% improvement to water source (taps cost two pence for unemployment Water: poor water supply means most people either drat kiosks, lack of sanitation means people dump refuse Health: malaria is a big problem: 37.7% infected in 2000 Education: youthful population 2011 a promise for free
features Ethnic diversity Housing Services and infrastructure	 Kikuyu are dominant group but there are immigrants and Challenges Housing shortage for migrants leads to expansion of so living in these in Nairobi Kibera: biggest slum in Africa, small shacks, only 20% improvement to water source (taps cost two pence for unemployment Water: poor water supply means most people either drat kiosks, lack of sanitation means people dump refuse Health: malaria is a big problem: 37.7% infected in 2006 Education: youthful population so I a promise for free services in the city
features Ethnic diversity Housing Services and	 Kikuyu are dominant group but there are immigrants and Challenges Housing shortage for migrants leads to expansion of so living in these in Nairobi Kibera: biggest slum in Africa, small shacks, only 20% improvement to water source (taps cost two pence for unemployment Water: poor water supply means most people either drat kiosks, lack of sanitation means people dump refuse Health: malaria is a big problem: 37.7% infected in 2000 Education: youthful population so I a promise for free services in the city Unemployment: 20 th prophyment at over 40%, drawnown and contents are immigrants and challenges
features Ethnic diversity Housing Services and infrastructure	 Kikuyu are dominant group but there are immigrants and Challenges Housing shortage for migrants leads to expansion of soliving in these in Nairobi Kibera: biggest slum in Africa, small shacks, only 20% improvement to water source (taps cost two pence for unemployment Water: poor water supply means most people either drat kiosks, lack of sanitation means people dump refuse Health: malaria is a big problem: 37.7% infected in 200 Education: youthful population and a promise for free services in the city Unemployment: The transployment at over 40%, dractime
features Ethnic diversity Housing Services and infrastructure Crime and jobs	 Kikuyu are dominant group but there are immigrants and Challenges Housing shortage for migrants leads to expansion of soliving in these in Nairobi Kibera: biggest slum in Africa, small shacks, only 20% improvement to water source (taps cost two pence for unemployment Water: poor water supply means most people either drat kiosks, lack of sanitation means people dump refuse Health: malaria is a big problem: 37.7% infected in 200 Education: youthful population as a promise for free services in the city Unemployment: at the property of the condensation, lack of property of the condensation of the c
Features Ethnic diversity Housing Services and infrastructure Crime and jobs Transport issues	 Kikuyu are dominant group but there are immigrants and Challenges Housing shortage for migrants leads to expansion of soliving in these in Nairobi Kibera: biggest slum in Africa, small shacks, only 20% improvement to water source (taps cost two pence for unemployment Water: poor water supply means most people either drat kiosks, lack of sanitation means people dump refuse Health: malaria is a big problem: 37.7% infected in 200 Education: youthful population as a promise for free services in the city Unemployment: a the remployment at over 40%, dracrime Gring the congestion, lack of pollution: lack of sewerage means that the Nairobi rive
Features Ethnic diversity Housing Services and infrastructure Crime and jobs Transport issues Environme al	 Kikuyu are dominant group but there are immigrants and Challenges Housing shortage for migrants leads to expansion of soliving in these in Nairobi Kibera: biggest slum in Africa, small shacks, only 20% improvement to water source (taps cost two pence for unemployment Water: poor water supply means most people either drat kiosks, lack of sanitation means people dump refuse Health: malaria is a big problem: 37.7% infected in 200 Education: youthful population as a promise for free services in the city Unemployment: a the remployment at over 40%, dracrime Gring the congestion, lack of pollution: lack of sewerage means that the Nairobi rive
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Features Ethnic diversity Housing Services and infrastructure Crime and jobs Transport issues Environme al	 Kikuyu are dominant group but there are immigrants and Challenges Housing shortage for migrants leads to expansion of so living in these in Nairobi Kibera: biggest slum in Africa, small shacks, only 20% improvement to water source (taps cost two pence for unemployment Water: poor water supply means most people either drat kiosks, lack of sanitation means people dump refuse Health: malaria is a big problem: 37.7% infected in 200 Education: youthful population I a promise for free services in the city Unemployment: a the imployment at over 40%, dracrime Unemployment: a the imployment at over 40%, dracrime Waste: mostly informal, and only 25% of waste is collection bikes to collect and sort waste quickly and efficiently
Features Ethnic diversity Housing Services and infrastructure Crime and jobs Transport issues Environmental iss. The services and infrastructure	 Kikuyu are dominant group but there are immigrants and Challenges Housing shortage for migrants leads to expansion of so living in these in Nairobi Kibera: biggest slum in Africa, small shacks, only 20% improvement to water source (taps cost two pence for unemployment Water: poor water supply means most people either drat kiosks, lack of sanitation means people dump refuse Health: malaria is a big problem: 37.7% infected in 2000 Education: youthful population and a promise for free services in the city Unemployment: a the remployment at over 40%, dracrime Unemployment: a the remployment at over 40%, dracrime Waste: mostly informal, and only 25% of waste is collection bikes to coll

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Revision Questions

Nairobi, Kenya





1	What is the population size of Nairobi?	
2	Describe the physical geography of the land around Nairobi.	
3	Name a TNC that has a base in Nairobi.	COBA
4	When was Nairobi four	
5	In 2005, Louis reentage of Kenyan citizens lived in Newrobi?	
6	Why are there fewer jobs in rural areas in Kenya today?	
7	There was a wave of migration in the 1960s. Where were the immigrants from?	COBA
8	What percentage of Nairobians live is a life settlements?	
9	How do 79 ts 1.4 Kibera access health care?	
	- comPF	



Why are residents of squatter settlements more 10 likely to be ill? What is the difference 11 private s How much water is wasted by illegal tap-ins? Why do people have to use diesel generators in Nairobi? Why do people join gangs? Who are the Jua Kali? 16 What ar gat le impacts of congestion? How does a lack of sewers affect the Nairobi 17 river? Give evidence of the poor air quality in Nairobi What is Dandora? aste disposal be How car 20





Quick-fire Answers

(~	Quick-fire Answers
	3.36 million people
1	3.36 million people
2	It is in a mountain with cool air, but the immediate area around the Nairobi river is man
3	Coca-Cc Logon le, 1BM, General Electric, UN African Headquarters
4	1899
5	8.2%
6	Because some farmers have access to machines that can do the agricultural work
7	India and Pakistan
8	60%
9	Many can't, as they can't afford private health care. Some mobile clinics are operated by charities
10	They can't pay for medicines to stop them getting ill, and the nment they live in is dirty and
11	Public schools are free, private schools are paids: 1 ic schools often have large class sizes, and
12	40%
13	 Because there may a sign and not enough hydroelectric power is generated Because there may a sign and not enough hydroelectric power is generated
14	Because nemployment is high, and people need ways to make money
15	Craftspectal discretice providers who recycle waste in Nairobi
16	Loss of money (£200 million), as people could be working, they use up fuel, and there's pollution e
17	Many people don't have sewers and so their human waste goes directly into the river, polluting it
18	 The amount of particulates in the air is double the WHO — lines The amount of cancer causing particles is nearly — m nig er than WHO guidelines
19	Nairobi's only official dump – it's nearly full!
20	 Increase amount of dumping sit Don't let people live result ins Increase waste of the ins
	Inc 79 vm, i. g and recycling





Extension Questions

- Describe how Nairobi is connected to the rest of the world. 1.
- 2. Why was Nairobi founded?
- Why are birth rates in Kenya fell as 3.
- How has migration. ecca Nairobi? 4.
- 5. Descri environment of Kibera.
- 6. Why might children in Nairobi not go to school?
- 7. How do people cook in squatter settlements? Why? How is it a proble
- 8. Why is malaria a problem in Nairobi?
- Give some examples of illegal activity that are a problem for Nairobi, a 9.
- 10. Give some criticisms of the city authority's management of Nairobi.





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Extension Answers

- By air through the Jomo Kenyatta airport
 By land and rail major routes to Uganda and Tanzania, as well as to the coas
 of trade is
- 2. As a railway depot for transporting goc 's ir. to the British Empire.
- 3. Decreasing impor sirculture farmers traditionally had a lot of
 - Edución o replacans paid jobs for women, which means they are mo
 - Us control when people have children
- **4.** Youthful age structure as migrants are usually young people
 - Housing shortage
 - Rise of squatter settlements
 - Ethnic tensions
 - Pressure on services
 - Shortage of infrastructure
 - Urban sprawls
- 5. Poorly built shacks, no infrastructure, some water pipes, no flushing toilets, I
- **6.** They have to work to earn money for the family
 - They (usually girls) must stay at home to help the hilly with domestic of
 - They can't afford the uniforms/books/travel
 - They are too ill
 - The school is too far any y
- 7. Or 719 s is the fuelled by wood or charcoal
 - Be her hey can't afford electricity or gas
 - It can cause deforestation
 - It can cause poor air quality
- 8. Because it's a marshy area
 - Because it's a tropical country with a warm climate
 - Because there are standing bodies of water where mosquitoes can breed
 - Because a lot of people can't access hospitals for prevention and treatmer
 - Because malaria can cause death
- 9. Living on land you don't own leads to rise of squatter settlements
 - Theft and vandalism creates tension and leaves some people poorer
 - Accessing electricity or water supplies illegally llts in fewer resource
 - Corruption which takes money away f or be le who need it
- 10. Corruption, which takes and it way from development
 - Poor urban place and a services
 - Fr 79 ca i . At really free, as children still have to get to school and

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Exam-style Question COPY



Examine how the challenges faced by cities today differ between a developing / an emerging city.

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Level Marking

Level	Mark	Description
1	1–3	 The student evidences limited understanding between places, environments and processes. A limited ability to evaluate is evidenced throughout the sevidence of the limited and the limited understanding between places. A limited ability to evaluate is evidenced throughout the limited understanding between places, environments and processes. A limited ability to evaluate is evidenced throughout the limited understanding between places, environments and processes. A limited ability to evaluate is evidenced throughout the limited understanding between places. The argument of the limited understanding between places.
2 79 Zor Educe	INSP	 Lent evidences good understanding obetween places, environments and processes A reasonable ability to evaluate is evidenced of knowledge and understanding. The argumonly partially logical. There is some evidence
3	7–8	 The student evidences a firm understanding between places, environments and processes. A strong ability to evaluate is evidenced thro knowledge and understanding. The argumer explored. There is consistent evidence to sup

Indicative Content

- The student must discuss the challenges faced by both a UK city **and** a development of two case studies.
- The student must offer some evaluation of the similarities and differences of the

Suggested Content

Challenges faced in a UK city (Bristol, UK):

- The influx of people, including internation land admestic migrants, creates preshortages. In Bristol there is a land of land housing, meaning that in 2014. The demand for houses
- The size of the plant of the size of the
- The diversion of people in Bristol means that many people struggle to access the city. For example, immigrants who cannot speak English will struggle to access few ESOL courses in the city, problems are likely to persist. The size of the popservices, with places in local primary and secondary schools quickly being filled.
- There is clear inequality within Bristol, creating marked differences in the qual affluent and poor areas of the city. International migrants often settle in more meaning these groups are most likely to have a lower quality of life.

Challenges faced in a developing city (Nairobi, Kenya):

- Poor infrastructure is one of the greatest challenges faced in Nairobi. Poor clear
 systems lead to problems of water contamination, pollution and disease. Water
 within the city, which is made worse by the high degree of wastage created that
- There is also a housing shortage in Nairobi, as the conditional housing in the form of squatter to the most of appear. In Nairobi the with 2.5 million people living in the first squatter settlements across the conditional housing in th
- Transport issues are a remarkable stimated out committee minimal and the min
- The provision of healthcare in Nairobi is a serious problem, particularly in the people are too poor to afford medicine, and poor sanitation and hygiene increadengue fever and HIV/AIDS are the main diseases threatening the people of N

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• Poor education rates in Nairobi is another challenge faced by the city. While the free, many families cannot afford the uniform, transport and books required. Cattend secondary school, meaning the poorest families get trapped in a cycle of education or training required to gain a well-paid job.

- Poor provision of energy in Nairobi is also a problem, and continues to limit so Only 50% of households in Nairobi have access to electricity cables. The electric meaning blackouts often occur due to failures in the result.
- High levels of poverty and poor employment at b \ \ ≥ resulted in high levels
- Nairobi also faces severe environmer lenges, in the form of water pollul Nairobi River is now so polluled and support life, and the amount of part double the WHO grid and the amount of part double the WHO grid and the amount of part double the WHO grid and the amount of part double the WHO grid and the amount of part double the WHO grid and the amount of part double the WHO grid and the amount of part double the WHO grid and the amount of part double the WHO grid and the amount of part double the WHO grid and the amount of part double the WHO grid and the amount of part double the WHO grid and the amount of part double the WHO grid and the amount of part double the WHO grid and the amount of part double the WHO grid and the amount of part double the WHO grid and the amount of part double the WHO grid and the amount of part double the WHO grid and the amount of part double the whole the whole

Challenges fi. 100 n emerging city (São Paulo):

- Housing snortages and low incomes in São Paulo mean there are squatter settle
 across the city, 11% of the city's population live in these settlements. In 'mature
 long time, some services may have been installed, either by the city authorities
 water pipes and electricity lines, and some people may have upgraded their hor
 Favelas are usually inhabited by the poorest in society. Citizens who live in the
- Although healthcare is relatively good in São Paulo, not all drugs are on the Bi healthcare coverage; residents in São Paulo are often forced to sue the city in or insulin. Additionally, waiting times in hospitals and clinics are long, as people healthcare in São Paulo.
- Despite education being free up until the age of 14, many children still do not income areas are less likely to go to school, as there are fewer schools nearer the can perpetuate a cycle of poverty, as these children will have low-paying jobs have to stay in the favela.
- 43% of jobs in São Paulo are in the informal sector and work is bad for booften people are driven to it because they love male ducation, but it meanights or protection, and can suffer tush for the city, having so many people it loses out on tax reversal.
- Increasing populations the city has led to an increasing amount of waste will Poor w The city has led to an increasing amount of waste will poor w The city has led to an increasing amount of waste will poor w The city has led to an increasing amount of waste will poor will be city has led to an increasing amount of waste will poor will be city has led to an increasing amount of waste will poor will be city has led to an increasing amount of waste will poor will be city has led to an increasing amount of waste will poor will be city has led to an increasing amount of waste will poor will be city has led to an increasing amount of waste will poor will be city has led to an increasing amount of waste will poor will be city has led to an increasing amount of waste will poor will be city has led to an increasing amount of waste will poor will be city has led to an increasing amount of waste will be contained to poor will be city has led to an increasing amount of waste will be contained to be city has led to an increasing amount of waste will be contained to be contained t



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