



2016 specification
first exams in 2016

OCR B GCSE Geography

Keyword Activities

Topic 2: Changing Climate

AP4.
6534

POD
6534

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Teacher's Introduction

This resource has been produced to support the teaching of the **2016 OCR B specification for GCSE Geography**:
Topic 2: Changing Climate.

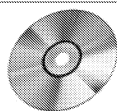
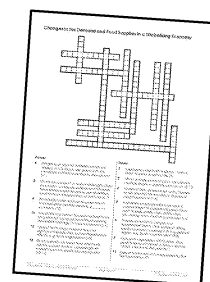
To help with the delivery of the specification all of our keyword activities are organised into subtopics linked to the key questions presented within each theme. A variety of engaging activities is included to help consolidate your students' understanding of key terminology and concepts. The range of activities enables you to use this resource **before, during** and **after** the teaching of each subtopic, helping your students to **prepare, recap** and **revise** each module.

The learning content for Changing Climate is covered by a total of three sets of keywords and matching descriptions. For each set, there are five different keyword activities designed to give you a range of different options for classroom, homework and revision. The answers for all the keywords can be found at the back of the resource, along with the crossword solutions.

The activities are as follows:

① Crosswords

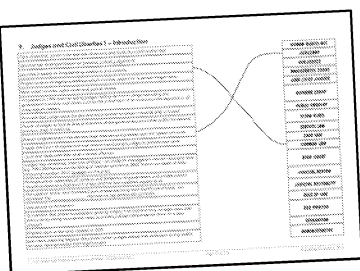
These traditional keyword activities are equally effective as lesson or homework activities – and are also an excellent way to ease students into their revision programme. There is also an A3 'jumbo' crossword with terms from across the whole unit. This could be used as class revision challenge at the end of the unit, perhaps dividing students into teams to see how far they can get.



In addition to the photocopiable worksheets, the crosswords are also provided in interactive format on the accompanying CD-ROM. These are web-based (HTML) and will run straight from your Internet browser.

② Fill in the Keyword

Nothing fancy – students simply write the keyword which is being described, without any other help. Because this activity tests the students' own knowledge, they are best used as a homework activity at the end of each subtopic or during revision. This then acts as a check that they have grasped the key terminology for each subtopic. Alternatively, they could be given to students at the beginning of the subtopic, to see what they already know.



③ Match Up

Students match descriptions to their keyword by drawing lines between them. Because there are similar descriptions and keywords, students are likely to make the odd mistake while completing the activity, so it is recommended that they use a pencil to start with! By eliminating the keywords that they are familiar with, students can then think about and learn the ones that they are less confident with.

④ Dominoes

This is another match up activity, but this one is designed to be used in a more active way to engage students. It is recommended that students work in pairs or small groups. Half of each card contains a keyword, and the other contains a description. To complete the activity, students must align all the cards in the correct order. There is a 'Start' and a 'Finish', meaning that if any cards are left outside of the chain, then students have gone wrong somewhere. The CD contains an editable Word version of the blank dominoes template, so you can make your own.

⑤ Bingo

Each student is given a different bingo card containing a selection of words from the set. The teacher reads the definitions and the student must match the definition to the words on their card to complete rows, columns, and the full bingo card.

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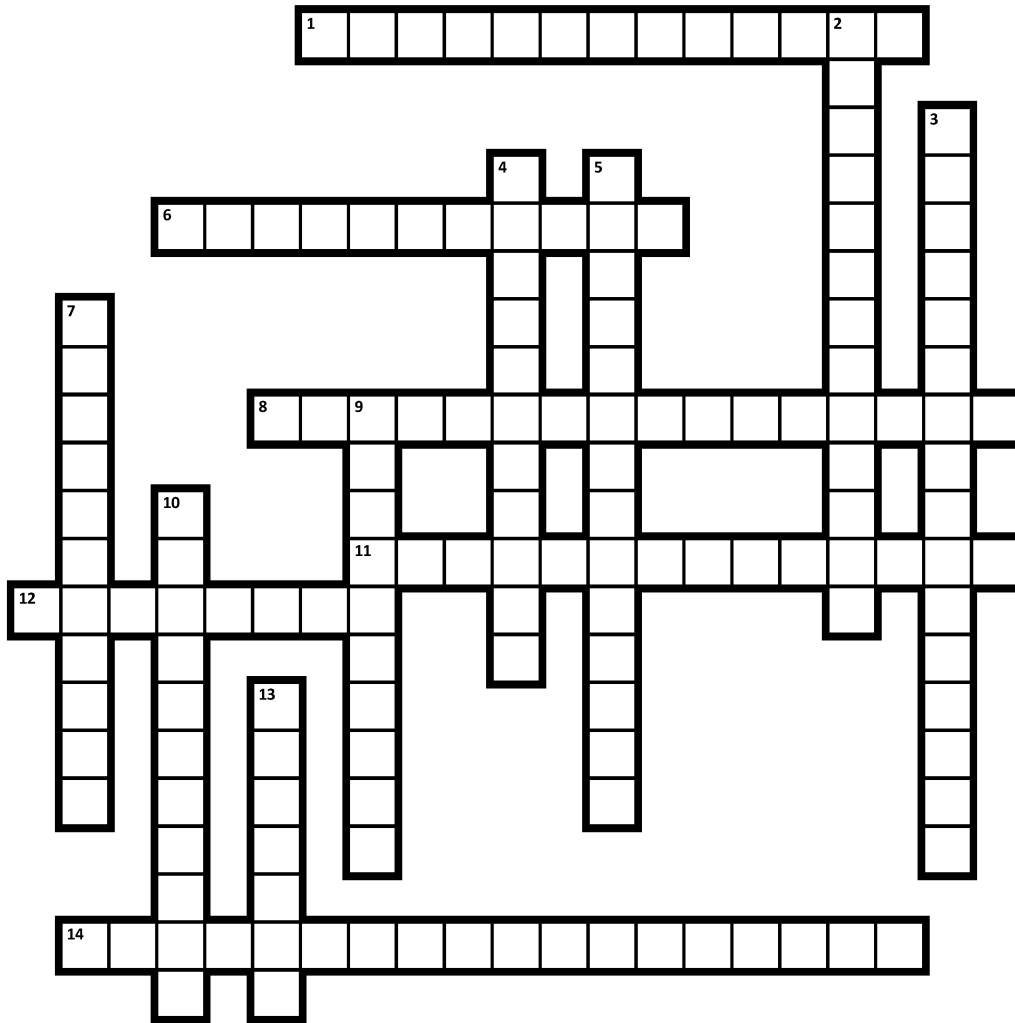
A Roberts, April 2016

Selected Activities and Completed Glossary Page

This sample shows one example of several activities.
The whole resource contains approximately 20 activities –
6 or 7 activities for each of the 3 topics.

The resource covers 41 key terms.

Subtopic 1: Climate Change: Factors: Crossword



Across

- 1 Natural global temperature variation over long periods of time (7,6)
- 6 Temporary prohibition on the watering of gardens other than with watering cans (8,3)
- 8 The last two million years (10,6)
- 11 Variation within the rotation of the Earth's orbit around the Sun, which causes climate fluctuations (7,7)
- 12 Cooler areas of the Sun's surface, which have a cooling effect on Earth's climate (8)
- 14 Climatic variation due to changes in the Earth's orbit and tilt on its axis (12,6)

Down

- 2 Recent temperature increase, caused by the artificial addition of greenhouse gases into the atmosphere by humans (6,7)
- 3 The process of atmospheric warming caused by certain gases in the atmosphere that trap heat (10,6)
- 4 Condition cause by lack of water (11)
- 5 Drivers of climate which are beyond the control of humans (7,7)
- 7 The amount of energy provided to the Earth and its atmosphere by the Sun (5,6)
- 9 Gaseous layer above the Earth's surface (10)
- 10 Coal, oil and natural gas, for example (6,5)
- 13 Natural emitter of greenhouse gases (7)

Subtopic 1: Climate Change: Factors: Fill in the Keyword

Gaseous layer above the Earth's surface, ranging from the troposphere to the exosphere, the pressure of which decreases with increased distance from the surface	
Non-renewable energy sources which were created in the past, which include coal, oil and natural gas	
Cooler areas of the Sun's surface, which have a cooling effect on Earth's climate	
Climatic variation due to changes in the Earth's orbit and tilt on its axis	
Condition in humans and animals which can result after drought has caused a lack of water	
Temporary prohibition on the watering of gardens other than with watering cans	
The natural trend and variation in the Earth's climate over time	
The rise in the average temperature of the Earth's atmosphere and oceans since the nineteenth century and its projected continuation into the future	
Natural process by which the Earth's atmosphere absorbs and traps long-wave radiation from the Sun, causing elevated surface temperatures.	
Drivers of climate which are beyond the control of humans	
Variation within the rotation of the Earth's orbit around the Sun, which causes climate fluctuations	
Processes whereby greenhouse gases are released into the atmosphere from within the Earth	
The amount of energy provided to the Earth and its atmosphere by the Sun	
The most recent period in geological time, spanning the last two million years until present. This is divided into the Pleistocene (last glacial period) and the Holocene (most recent interglacial period).	

Subtopic 1: Climate Change: Factors: Match Up

Climatic variation due to changes in the Earth's orbit and tilt on its axis	
Condition in humans and animals which can result after drought has caused a lack of water	
Cooler areas of the Sun's surface, which have a cooling effect on Earth's climate	
Drivers of climate which are beyond the control of humans	
Gaseous layer above the Earth's surface, ranging from the troposphere to the exosphere, the pressure of which decreases with increased distance from the surface	
Natural process by which the Earth's atmosphere absorbs and traps long-wave radiation from the Sun, causing elevated surface temperatures.	
Non-renewable energy sources which were created in the past, which include coal, oil and natural gas	
Processes whereby greenhouse gases are released into the atmosphere from within the Earth	
Temporary prohibition on the watering of gardens other than with watering cans	
The amount of energy provided to the Earth and its atmosphere by the Sun	
The most recent period in geological time, spanning the last two million years until present. This is divided into the Pleistocene (last glacial period) and the Holocene (most recent interglacial period).	
The natural trend and variation in the Earth's climate over time	
The rise in the average temperature of the Earth's atmosphere and oceans since the nineteenth century and its projected continuation into the future	
Variation within the rotation of the Earth's orbit around the Sun, which causes climate fluctuations	

ATMOSPHERE
CLIMATE CHANGE
DEHYDRATION
FOSSIL FUELS
GLOBAL WARMING
GREENHOUSE EFFECT
HOSEPIPE BAN
MILANKOVITCH CYCLES
NATURAL FACTORS
ORBITAL CHANGES
QUATERNARY PERIOD
SOLAR OUTPUT
SUNSPOTS
VOLCANIC ACTIVITY

Subtopic 1: Climate Change: Factors: Dominoes

START	Gaseous layer above the Earth's surface, ranging from the troposphere to the exosphere, the pressure of which decreases with increased distance from the surface
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Fossil Fuels	Cooler areas of the Sun's surface, which have a cooling effect on Earth's climate
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Milankovitch Cycles	Condition in humans and animals which can result after drought has caused a lack of water
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Hosepipe Ban	The natural trend and variation in the Earth's climate over time
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Atmosphere	Non-renewable energy sources which were created in the past, which include coal, oil and natural gas
------------	--

Sunspots	Climatic variation due to changes in the Earth's orbit and tilt on its axis
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Dehydration	Temporary prohibition on the watering of gardens other than with watering cans
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Climate Change	The rise in the average temperature of the Earth's atmosphere and oceans since the nineteenth century and its projected continuation into the future
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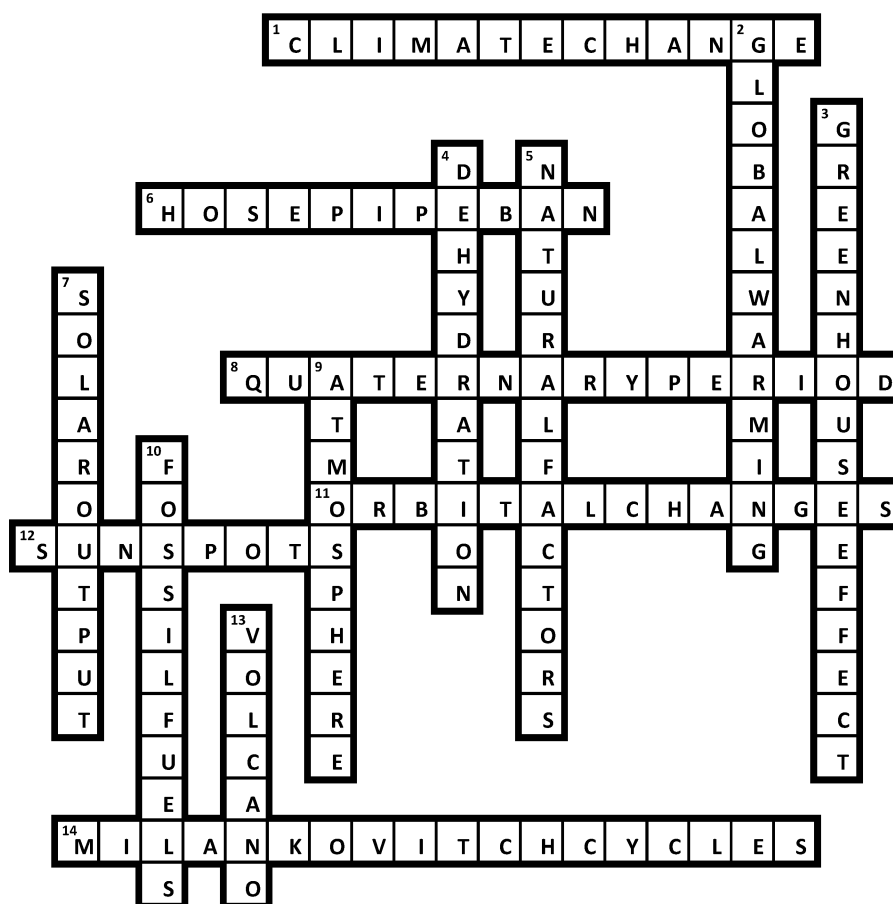
Subtopic 1: Climate Change: Factors: Bingo

Bingo			
Atmosphere	Fossil Fuels	Sunspots	<i>Other Keywords</i> 1. 2. 3. 4. 5.
Milankovitch Cycles	Dehydration	Hosepipe Ban	
Climate Change	Global Warming	Greenhouse Effect	

Bingo			
Hosepipe Ban	Quaternary Period	Solar Output	<i>Other Keywords</i> 1. 2. 3. 4. 5.
Volcanic Activity	Orbital Changes	Natural Factors	
Greenhouse Effect	Global Warming	Climate Change	

Crosswords

Subtopic 1: Climate Change: Factors



Subtopic 2: Climate Change: Proxies / Evidence

