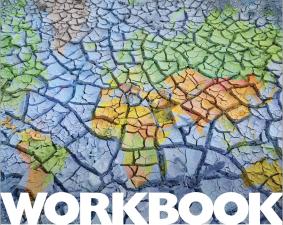
AQA

GCSE (9-1)



Geography

Practise your exam skills • Answer questions confidently • Improve your grade

Andy Owen



© Hodder Education, 2019

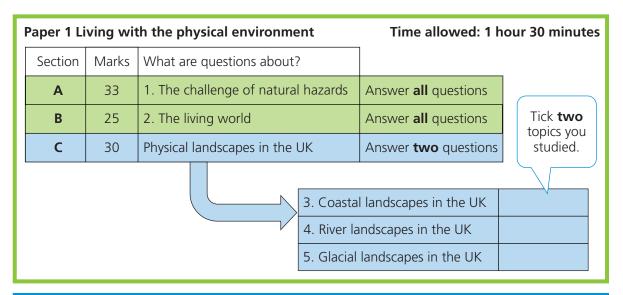


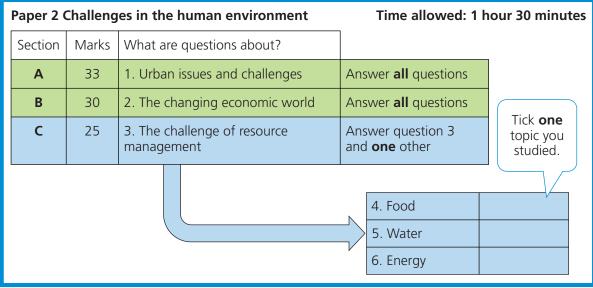
Contents

Introduction: What is assessed on each		Using OS maps	48
paper?	3	Four- and six-figure grid references	49
Chapter 1: How Geography is		Using aerial photos with OS maps	50
assessed in Papers 1 and 2	4	Chapter 3: Preparing for Paper 2	54
Understanding exam questions	4	Global urban patterns	54
Read the question carefully	4	Push-pull theory	55
Dealing with complex questions	5	Urban opportunities in LICs and NEEs	55
Tackling skills questions	6	Urban challenges in LICs and NEEs	56
Using graphs	6	A case study of a major city in an LIC	
Reading maps	8	or NEE	58
Doing simple calculations	9	Urban change in the UK	60
Reading photos	11	Opportunities in UK cities	60
6-mark questions on Papers 1 and 2	14	Challenges in UK cities	61
Understanding the question	14	A case study of a major UK city	62
Using connectives to develop your	47	Sustainable urban living	63
understanding	17	The changing economic world	65
9-mark questions on Papers 1 and 2	18	The Demographic Transition Model	67
Structuring your answer	19	Reducing the development gap	68
Signposting your answer	19	Transnational companies	70
PEEL your answer Dealing with 'to what extent?'	20 20	A case study of one LIC or NEE	72
How 9-mark questions are marked		Economic futures in the UK	73
Sample answer		The post-industrial economy	74
Spelling, punctuation and grammar		The challenge of resource management	76
		Food	76
Chapter 2: Preparing for Paper 1		Water	77
Tectonic hazards		Energy	77
Effects of tectonic hazards		Optional content on food/water/energy	78
Managing tectonic hazards		Chapter 4: Preparing for Paper 3	81
Weather hazards		Section A: The Issue Evaluation	81
Atmospheric circulation		Using the Pre-release resources booklet	81
Tropical storms		Types of question in the Issue Evaluation	82
Managing weather hazards		Answering the 9-mark question	83
Extreme weather in the UK	33	Planning your answer to a 9-mark question	84
Climate change	35	Structuring your 9-mark answer	84
Evidence of climate change	35	Signposting	85
Possible causes of climate change		Aiming high!	85
Managing climate change		Section B: Fieldwork	87
Ecosystems		Questions about unfamiliar fieldwork	87
Tropical rainforests	39	Questions about your own fieldwork	89
A case study of a tropical rainforest		Command words	91
Hot deserts/cold environments		Evaluation, evaluation, evaluation	92
A case study of hot deserts/cold	74	Using your own experience	92
environments	42		
Physical landscapes in the UK	44		
Landforms	44		

Introduction: What is assessed on each paper?

Figure 1 shows what is assessed on each of the three exam papers. There are some options in Paper 1 and Paper 2. Make sure you know which ones you have covered.





Paper 3 (Geograp	hical applications	Time allowed: 1 h	our 30 minutes
Section	Marks	What are questions about?		
Α	37	Issue evaluation	Answer all questions	
В	39	Fieldwork	Answer all questions	

Figure 1 What each exam paper assesses

Chapter 1: How Geography is assessed in Papers 1 and 2

This chapter is about how GCSE Geography is assessed in Papers 1 and 2. It will cover:

- what the exam questions mean
- how to tackle questions that use graphs, maps and photos
- how to answer questions worth 6 and 9 marks.

Understanding exam questions

Papers 1 and 2 have a variety of questions designed to test your ability as a geographer. It's important you understand what each question is asking you to do:

- **Command words** are words such as 'Assess' or 'Explain'. The command word tells you what you must do when you write your response. Common command words used in Paper 1 and Paper 2 are given in **Figure 1.2**.
- The **tariff** is the number of marks that are available for each question. These marks are shown at the end of the space where you put your answer. Use the number of lines printed on the exam paper as a guide to how much you should write.
- The **assessment objective (AO)** is what the examiner is looking for in your response. There are four AOs. They are described in **Figure 1.1**. Some questions assess only AO1 or AO4. These questions have a low tariff. Other questions assess a combination of AOs. These questions have 4, 6 or 9 marks. You will need to read these questions very carefully to understand what the examiner is looking for.

In Paper 1 and Paper 2 you have about one minute for each mark. Spend about ten minutes on a 9-mark question. Don't write a lot for a 1- or 2-mark question.

Figure 1.1 The assessment objectives (AOs)

	What the examiner is looking for	Typical command word
AO1	Your ability to remember geographical facts	Describe, Give, Outline, State
AO2	Whether you understand geographical concepts and processes	Explain, Give one reason, Outline one reason
AO3	Whether you can evaluate evidence or use evidence to make a decision	Assess, Discuss, Suggest, To what extent?
AO4	Your skill when you use maps and graphs or make calculations	Describe, Calculate, Give, State

Read the question carefully

It is essential to do what the command word asks you to do. If the command is 'assess' or 'to what extent?' then you must do some evaluation or make a judgement. **Figure 1.2** lists common command words and explains what they mean.

BUG the question! Sometimes candidates seem to write everything they know about a subject, without actually answering the question! To avoid this, **BUG** the question:

Bold the command word.

Underline other important instructions.

Glance back at the question to make sure you are actually answering it!

Figure 1.2 Command words that could be used in Paper 1 and Paper 2

Tariff	Command word	What you need to do	Example	
1, 2, 3	Calculate	Work out the value of something.	Calculate the mean shown in Figure 1. Show your working.	2 marks
	Describe	Give a brief account of something.	Describe the distribution of countries shown in Figure 1.	2 marks
	Give	Make a short, simple statement.	Give one reason why tropical regions have high temperatures throughout the year.	1 mark
	Identify	Name a feature.	Using Figure 1, identify the landform marked X.	1 mark
	Outline	Give a brief account of something.	Outline one way in which trade has had an impact on a named LIC or NEE country.	2 marks
	State	Make a short, simple statement of fact.	State one physical characteristic of a tropical rainforest.	1 mark
2–4–6	Discuss	Consider the arguments that can be debated around a geographical issue.	Using Figure 1 and your own understanding, discuss the issues arising from the growth of major cities in LICs or NEEs.	6 marks
	Explain	Show your understanding by giving reasons.	Explain how waterfalls may change over time.	4 marks
	Suggest	Propose a possible solution, reason or consequence. Your suggestion should be based on geographical evidence.	Using Figure 1 and your own understanding, suggest how large-scale agriculture can create disadvantages for the environment.	4 marks
9	Assess	Evaluate a situation.	Assess the extent to which people can adapt to climate change.	9 marks
	To what extent?	Make a judgement by weighing up the arguments for and against. Make sure you give reasons for your decision.	To what extent have people been successful in managing traffic congestion in a major LIC or NEE city you have studied?	9 marks

Dealing with complex questions

Some questions seem to be very long and wordy. Don't panic. Break down the questions into bits to understand what the examiner wants you to do. In each question, look out for:

- the command this is often (but not always) the first word in the question.
- instructions to use a figure this will be a photo, map, graph or some text in the exam paper that contains useful clues. You **must** refer to the evidence provided
- instructions to use an example or case study you should know facts about fourteen examples and five case studies. Use details from these if the question asks for them
- whether you need to write about more than one thing for example, a question could be about economic **and** social reasons for migration. Sometimes students do the first part (economic, in this example) and forget to do the second (social) so they don't finish the question.

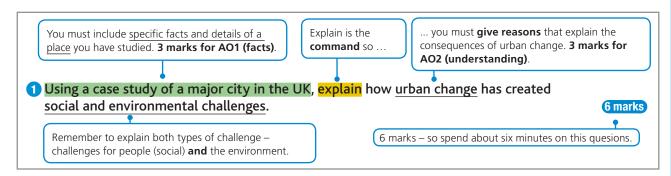


Figure 1.3 How to break down a complex question into its parts

Tackling skills questions

Papers 1 and 2 each have 19 marks that assess AO4 (skills). Most of these questions are worth 1 or 2 marks. Skills questions are about:

- using graphs
- reading maps
- doing simple calculations
- reading photos.

Using graphs

Graphs are used to present geographical data. Graph questions may ask you to:

- read a value from the graph
- complete the graph by adding a data point
- describe the shape (pattern or trend) of the graph.

Exam papers may contain a variety of graphs, including **bar charts**, **line graphs**, **climate graphs** and **scatter graphs**.

Line graphs often show a trend. Use words that describe this trend carefully. The following words are helpful:

- Decreasing if the values are going down. Add slowly, steadily or rapidly.
- Fluctuating if the values are wobbling up and down.
- Increasing if the values are going up. Add slowly, steadily or rapidly.

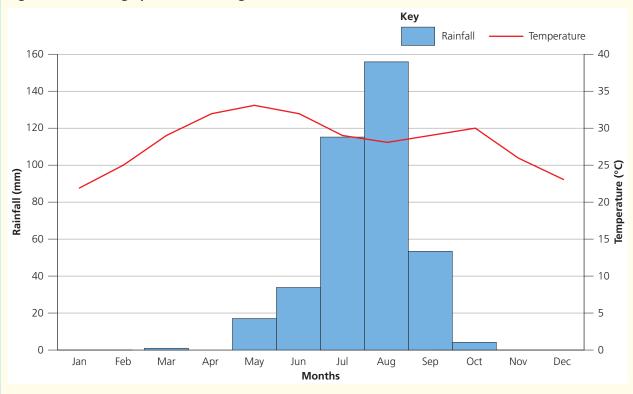


Figure 1.4 The increase in average global temperatures since 1860

- 1 Using Figure 1.4, give the temperature in:
 - a 1880
 - b 1990
 - c 2000

- 2 Using Figure 1.4, which three of the following statements are true?
 - a Temperatures increased rapidly between 1895 and 1905.
 - b Temperatures decreased steadily between 1935 and 1945.
 - c Temperatures increased steadily between 1915 and 1935.
 - d Temperatures fluctuated between 1990 and 2015.
 - e Temperatures fluctuated between 1870 and 1900.

Figure 1.5 Climate graph for Zinder, Niger



- 3 Using Figure 1.5, which three of the following statements are true?
 - a August has 42 mm of rainfall.
 - **b** There is a total of about 340 mm of rainfall in the three wettest months.
 - The temperature range is about 20°C.
 - d The temperature range is about 12°C.
 - e The minimum temperature is in August.
 - f The maximum temperature is in May.

Calculate the temperature **range** by finding the difference in temperature between the hottest month and the coldest month.

Reading maps

Exam papers contain a variety of styles of maps. Some, like Figure 1.6, show where features are located.

Features (or data values) on a map may show a pattern. If so, the question may ask you to **describe the distribution**. In your answer, you need to describe the pattern carefully. The following words are helpful:

- **Clustered:** points on a map are concentrated into small groups.
- **Linear:** features on a map are spread out along lines.
- **Random:** features are at irregular distances from each other. There is no clear pattern.
- **Regular:** features are spaced out evenly across the map.

Other types of map are also used in exam papers, including:

- **OS maps** (see pages 48–50)
- **Choropleth maps** (see page 66)
- Isoline maps.



Use words like clustered, random and **regular** to describe distribution. This is an opportunity to show the examiner your use of geographical vocabulary.

Figure 1.6 Tata steel factories and offices in India

- Using Figure 1.6, which one of the following statements best describes the location of Kolkata?
 - a Near the coast of the Bay of Bengal.

- North of the Indian Ocean and east of New Delhi.

c 1600 km ENE of Mumbai. d 1600 km WSW of Mumbai.

sales offices.

5 Using Figure 1.6, describe the location of Chennai.

6 Using Figure 1.6, describe the distribution of Tata

Never describe somewhere as 'near to'. It's too vague. You should always use a compass direction and distance from an important point on the map.

Doing simple calculations

Some questions test your ability to process geographical data by asking you to do simple calculations. The data will be presented in the exam paper as a table, graph or map. The question will begin 'Using **Figure XX**' and will use a command word such as '**calculate**'. They are simple questions which are usually worth 1 or 2 marks. You are allowed to use a calculator to find the answer. This page looks at some common questions.

Calculating averages and range

Mean: what we often think of as 'average'. To find the mean you must add up all of the values in the set of data and then divide by the number of values.

Median: to find the median value you must arrange the data in rank order. The median is the value in the middle.

Mode: the value in your set of data that occurs most frequently. It is often used with data that is sorted into categories, like the pebble sizes in **Figure 1.7**.

Range: the difference between the highest and lowest values in the set of data.

Interquartile range (IQR): the difference between values that are three-quarters and one-quarter the way through a set of data.

Study **Figure 1.7**. It shows data (the size of pebbles) collected by students at three sites along a river. **Figure 1.8** shows how you could show your working if you are asked to calculate the median or the interquartile range.

Make sure you show how you got the answer if the question says 'Show your working here'. In a 2-mark question, you may get 1 mark by showing your working, even if your answer is wrong.

Site A	14	5	3	19	8	4	2	6	15	3	12	3	7	3	9
ite B	11	4	15	2	7	1	4	3	12	8	3	1	5	2	7
ite C	6	3	1	9	3	4	1	2	6	7	2	1	4	1	5
19 15		<mark>12</mark> pper qu		8	Th value in	e median the mid	dle of th		3 er quarti I(3 3 le QR = 12			All of the Accordance of the A	\ have l	oeen
										differ	ence in	rquartil value be and the	etween	the thre	
gure 1.8										differ	ence in	value be	etween	the thre	
gure 1.8						an for :	Site B	and Si	te C.	differ	ence in	value be	etween	the thre	
	Figure					an for :	Site B	and Si	te C.	differ	ence in	value be	etween	the thre	

Chapter 2: Preparing for Paper 1

Tectonic hazards

Tectonic hazards are caused by the movement of the plates that make up the Earth's crust. A small number of key geographical terms could be used in exam questions. Learn them carefully.

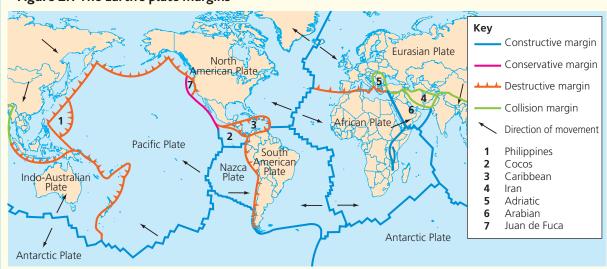
plate margins constructive destructive conservative tectonic plates

1 Match five key terms to the correct definition below. Two terms are not needed.

plate margins transnational constructive destructive conservative tectonic plates seismometer

Term	Definition
	Rigid sections of the Earth's crust.
	Places where the Earth's plates meet each other.
	Plate margins where plates are moving towards one another.
	Plate margins where plates are moving away from one another.
	Plate margins where plates are sliding past one another.

Figure 2.1 The Earth's plate margins



- 2 Using Figure 2.1, which three of the following statements are true?
 - a The Nazca Plate is being destroyed beneath the South American Plate.
 - **b** There is a conservative plate margin on the eastern side of the North American Plate.
 - c The western Pacific Plate is bordered by destructive plate margins.
 - d There is a destructive plate margin between the South American Plate and the African Plate.
 - e There is a constructive plate margin between the North American Plate and the Eurasian Plate.

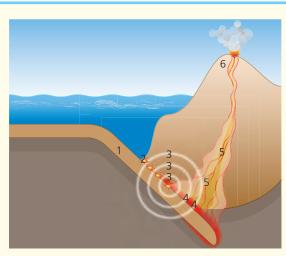


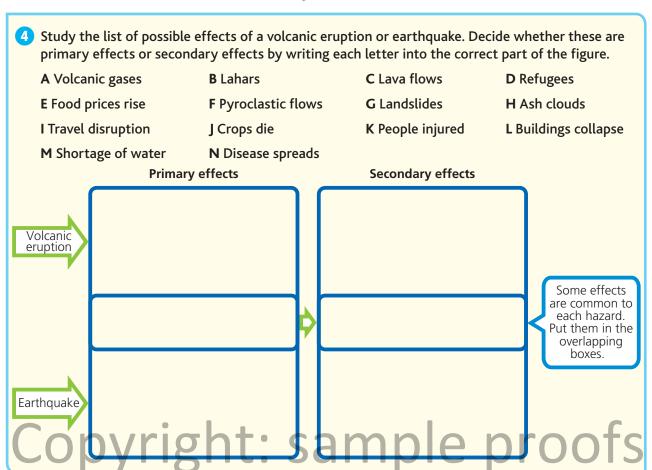
Figure 2.2 The process of subduction occurs at destructive plate boundaries

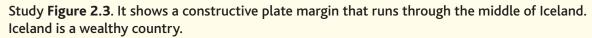
3 Using the labels in **Figure 2.2**, number each step in the following table to explain what happens as the Nazca Plate meets the South American Plate.

Number	Labels for Figure 2.2
	The magma reaches the surface, causing a volcanic eruption
	There is friction between the oceanic and continental plates
	Magma rises through the continental crust
	The dense Nazca Plate is pulled into the mantle
	The heat and friction cause oceanic crust and ocean floor sediment to melt
	The friction is overcome, causing an earthquake

Effects of tectonic hazards

Tectonic hazards have immediate effects on the environment and on people. These are **primary effects**. These effects can trigger further problems which may continue for weeks or months. These are **secondary effects**.





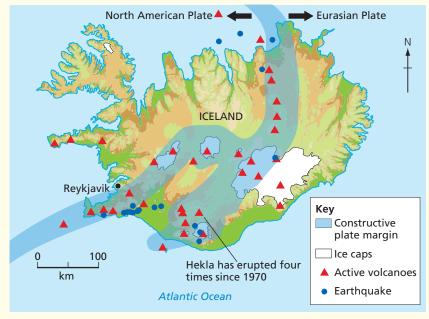


Figure 2.3 Iceland's plate margins

- 5 Using Figure 2.3, which one of the following statements best describes the distribution of tectonic hazards?
 - a Regularly spaced along the constructive plate margin.

b Randomly spread throughout Iceland.

- some
- Mainly arranged in a linear pattern along the constructive plate margin, with some clustered to the southeast of Reykjavik.

6 Using Figure 2.3 and your own understanding, suggest how tectonic hazards could affect people living in Reykjavik.

You should refer to map evidence to support your answer. For example, you could work out the direction of the wind that would carry ash from Hekla over Reykjavik. 3 marks for AO3 (making judgements)

Show you understand how tectonic activity creates dangerous hazards for people. 3 marks for AO2 (understanding)

Write your answer to this question in your notebook. Use the sentence starters below to help you.

One hazard created by volcanic eruption is ash. If the wind was blowing ... so ... [HINT: Think about impacts on breathing in Reykjavik]. Also, flights could be delayed ... so ... [HINT: Think about the impact on imports/exports or tourism] ... so ... [HINT: Think about the impact on supermarkets or hotels in Reykjavik] ... so ... [HINT: Think about the impact on food prices and jobs].

Another hazard would be the ground shaking during earthquakes ... so ... [HINT: Think about the impact on buildings]. This might have short-term impacts such as ... [HINT: Think about impacts on people's safety] and long-term impacts such as ... [HINT: Think about repairs and the economy].

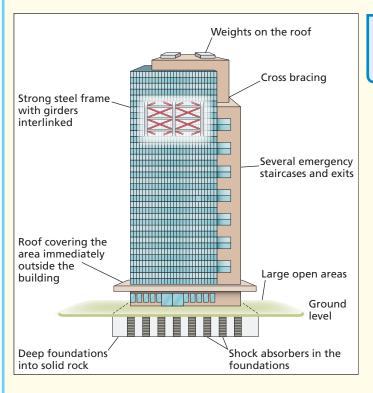
Managing tectonic hazards

Many people continue to live in areas at risk of tectonic hazards because they cannot afford to move or they think that the risks are low. We can reduce the risks of tectonic hazards through **monitoring**, **prediction**, **protection** and **planning**.

7 Match the four key terms to the examples below. You may use some terms more than once.

protection monitoring planning prediction

Term	Example
	Making regular measurements of gases emitted from a volcano.
	Using data (like earth tremors) to estimate when a volcano might erupt.
	Using seismometers to measure earth tremors.
	Designing buildings so that they flex rather than collapse during an earthquake.
	Using buoys in the ocean to measure the height of a tsunami wave.
	All emergency services know what to do in the event of an earthquake.



Use the 'So what?' technique (pages 12–13) to explain each point. One example has been done for you.

Figure 2.4 An earthquake-resistant building

8 Choose **two** of the labels on **Figure 2.4**. For each of these, explain how the design feature would reduce the risk. One example has been done for you.

Feature 1

A roof covers the area around the building so people are not injured by broken glass if it falls from windows.

Feature 2

Feature 3

must make a decision—is in the protection can be. It useful protection can be in the protecti	By referring to Figure 2.4	The command means you	Use an example of
useful protection can be. It useful or reducing its year of AO3 (decision making) It works 3 marks for AO3 (decision making) It works 3 marks for AO3 (decision making) It works 3 marks for AO3 (decision making)	you can explain how		
(decision making)	useful protection can be.	it useful or not in reducing	it works. 3 marks for
			AO2 (understanding)
		(decision making)	
Copyright: sample prod			

Examples of tectonic hazards

How much damage is caused by an earthquake or eruption depends partly on the wealth of the area affected. Wealth also affects how well people are able to respond with evacuation, aid or rebuilding programmes. Use the table below to summarise **two** examples. Use bullet points.

	Richer place	Poorer place
Place name		
Primary effects of the hazard	1.	1. List specific fac
	2.	2.
Secondary effects of the hazard	1.	1.
	2.	2.
One immediate response		E.g. rescuing people or providing shelf
One long-term response		E.g. rebuilding

