# **GEOGRAPHY AQA GCSE**Paper 1 Workbook

Using the CGP guide (newest edition)

# NAME: CLASS:

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# Use the paper 1 revision guide to complete this workbook. Draw diagrams in pencil and present your work neatly

Naturai Hazards Pg. 2	<u>'</u>		
<ol> <li>Define the follo</li> </ol>	wing key terms		
Natural Hazard	wing key terms		
Natural Disaster			
Extreme Event			
Extreme Event			
2. There are two	types of Natural Hazard	. 1 = Geo	ological and 2 = Meteorological
Finish these sentences			
Natural hazards are ca	aused by		An example of a natural hazard is
Meteorological hazar	ds are caused by	Aı	n example of a Meteorological hazard is
3. Different facto	ors affect Hazard Risk (th	e probal	bility that a natural hazard occurs).
Fill in the table with the fa	ictors		
Vulnerability			Capacity to cope
1			1
2			2
4. Nature of natu			
Join up the term with the	correct definition		
TYPE		How ma	any times a hazard occurs
FREQUENCY		The mo	re severe the hazard the greater the effects
The Querier		THE IIIO	re severe the nazara the greater the effects
MAGNITUDE		Some hazards risks are greater than others	
1. Define the foll	ects and responses pg. 3	•	
Primary effect	Owing key terms		
Filliary effect			
Secondary effect			
Immediate			
response			
Secondary response			

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2. What are the primary and secondary eff	fects? Fill in the table
Primary Effects	Secondary Effects
3. What are the responses? Fill in the table	
Immediate Responses	Long-term responses
1. Define the following key terms  Crust	
Mantle	
Tectonic Plate	
Continental Crust	
Oceanic Crust	
Plate boundary	
2. Types of plate margin  Draw an annotated diagram of each type of plate me	argin
Destructive Margins	

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Constructive Margins		
Conservative Margins		
Conservative ividigins		
Volcanoes and Earthquakes pg 5	i	
Where plates meet Volca	noos and Farthquakos ossur	
1. Where plates meet voica	noes and Earthquakes occur	
Finish this sentence	and	
	ne following places (you can use diagrams	
Destructive Plate Margin	Constructive Plate Margin	Hot Spots
Finish this sentence:		
		, and
Evalain why parthauakos oscur at		
Explain why earthquakes occur at:		
Destructive margins -		
Constructive margins -		
Conservative margins		
Conservative margins -		

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What is the moment magnitude scale? How do	oes it work? Answer the question below
Tectonic Hazards – Examples p6-7 Fill in the table using examples from the revision guide or in	class
Higher Income Country (HIC)	Lower Income Country (LIC)
Place	Place
Date	Date
Size	Size
Primary Effects	Primary Effects
Secondary Effects	Secondary Effects
Immediate Responses	Immediate Responses

Long Term responses

Long Term responses

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Come up with 5 key facts for each example:	
ving with Tectonic Hazards pg. 8	
1. Why do people live near Tectonic Hazards? Give three reasons	

	7 F F
1	
2	
3	

2. Management can reduce the effects of Tectonic Hazards

Complete the table

Management strategy	How does it reduce the effects?	Rate the strategy from 1 (very good) to 5 (very bad) at how effective it is in reducing the effects
Monitoring		
		1-2-3-4-5
		Evalain your choice
		Explain your choice
Prediction		
		1-2-3-4-5
		1-2-3-4-5
		Explain your choice
		, ,
Protection		
		1-2-3-4-5
		Explain your choice

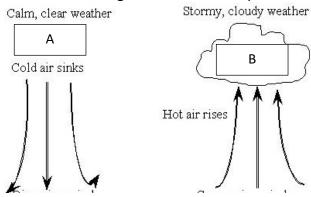
Planning	
	1-2-3-4-5
	Explain your choice

# **Global Atmospheric Circulation pg. 9**

1. \_Define the following key terms

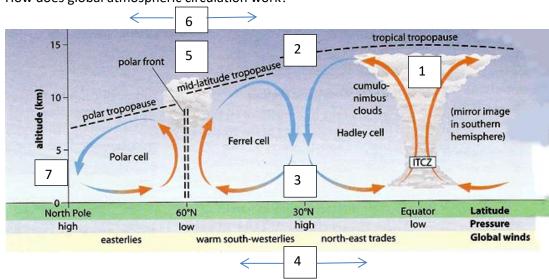
Global	
atmospheric circulation	
circulation	
Low pressure	
High pressure	
Cells	

2. Which is high and which is low pressure?



A =		
B =		

3. How does global atmospheric circulation work?



Complete the table on the next page based on the diagram and pg. 9 in the revision guide.

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1 – At the equator there is low pressure because
2 – As the air cools it
3 – At 30°N and 30°S there is high pressure because
4- Some air moves towards Other air moves towards
5- At 60°N and 60°S
6 – Some air
o some dir
7 – At the poles there is high pressure because
7 - At the poles there is high pressure because

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Explain how Climate Change may affect

**Tropical storms** 

# **Tropical Storms pg.10**

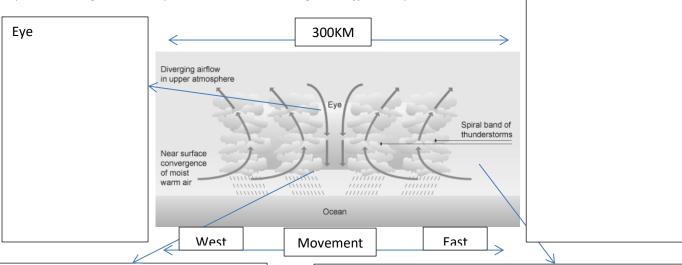
- 1. What are the three different names given to tropical storms?
  - a.
  - b.
  - c.

2. Describe the formation of a tropical storm and highlight the key words

2. Describe the formation of a tropical storm and highlight the key words
1
2
3
4
5
6

# Features and structure of a tropical storm

Complete the diagram and explain how Climate Change will affect Tropical Storms



Eyewall

Edge of the storm

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# Tropical Storms – Effects and Responses pg. 11

1. Typhoon Haiyan (LIC)

Low Income Country (LIC)
Place
Date
Primary Effects
Secondary Effects
Immediate Responses
Long Term responses
Long Territ Tesponses
2. There are many ways of reducing the offects of transical starras
2. There are many ways of reducing the effects of tropical storms

Management strategy	How does it reduce the effects?	Rate the strategy from 1 (very good) to 5 (very bad) at how effective it is in reducing the effects
Prediction		
		1-2-3-4-5
		Explain your choice

Do not write TEACHER USE ONLY		Incomplete		Satisfactory	Outstanding
Planning					
				1 – 1	2-3-4-5
			Expl	ain your cho	ice
Protection					
				1 –	2-3-4-5
			Expl	ain your cho	ice

# UK Weather Hazards – pg. 13

1. The UK experiences lots of different weather hazards.

Complete the mind map below with rain, wind, snow and ice, thunderstorms, hail storms, heatwaves and drought

Weather hazards in the UK

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2. W	/eather i	n the UK is becon	ning more extreme. Comp	olete the table		
Weather	-	How is becoming	g more extreme			
Tempera	atures					
Rain						
Flooding						
1. So	omerset	ner Example pg. : Floods 2013-14 the table	14			
When						
What						
Why						
			Impa	cts		
Social im	npacts		Economic Impacts		Environmenta	l Impacts
2. N	lanagem	ent Strategies. <i>Co</i>	omplete the table			

Management	How did this reduce the impacts?
Strategy	
Prediction	

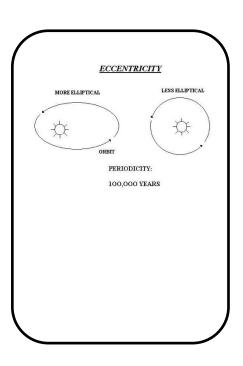
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Protection				
			<del></del>	
Planning				
	-1 .1			
	- The evidence pg. 15			
1. The earth	n is getting warmer. Answer the questions	s below		
1 – Wha	at is climate change?			
2 – Wha	at is the Quaternary period?			
	 at are glacial periods?			_
4- What	are interglacial periods?			
5- What	is global warming?			
2. Evidence	for Climate Change. Fill in the boxes.			_
	diment cores give evidence for Climate	How do Tree R	Rings give evidence	e for Climate Change?
Change?				

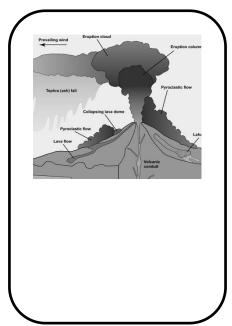
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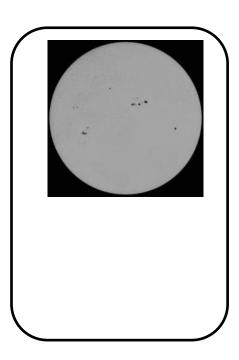
How does pollen analysis give evidence for climate	How do temperature records give evidence for climate
change?	change?

# Climate Change – Causes pg.16

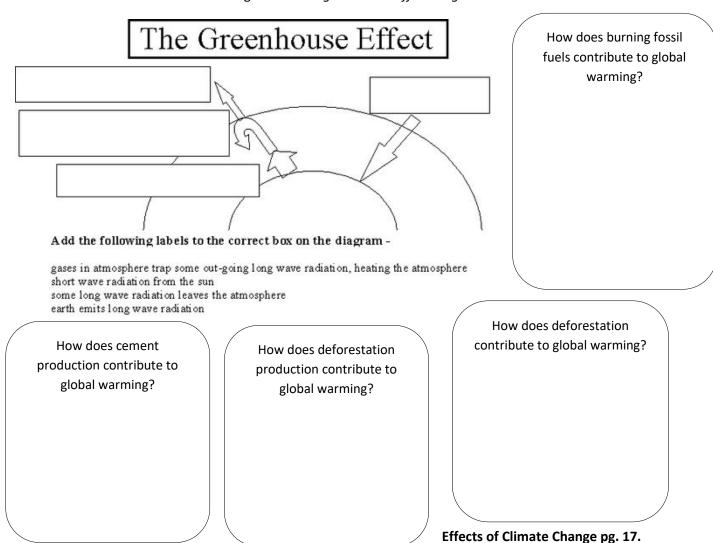
1. Natural causes of Climate Change. Summarise the three causes of natural climate change.







2. Human causes of climate change. Label the greenhouse effect diagram. Fill in the boxes with human causes.



1. Temperatures are expected to rise by  $0.3-4.8\,^{\circ}$ C. Fill in the table with the effects on people and the environment

Environmental impacts	Social impacts

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Managing Climate Change pg. 18	
Summarise the two different approaches to the ma	anagement of climate change
Mitigation	
Adaption	

_	_		
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2.	Mitigation	strategies.	Summarise	the	mitigation	strateaies

2. Willigation strategies. Summunse the miligation str	ategies.
Carbon Capture	Planting trees (afforestation)
International agreements	Alternative energy production
3. Adaption strategies. Summaries the adaption strat	egies.
Changing agricultural systems	Coping with rising sea levels.

Changing agricultural systems	Coping with rising sea levels.
Managing water supply	
Revision summary. Pg. 19. Answer the questions in the sp	ace below. Number them.

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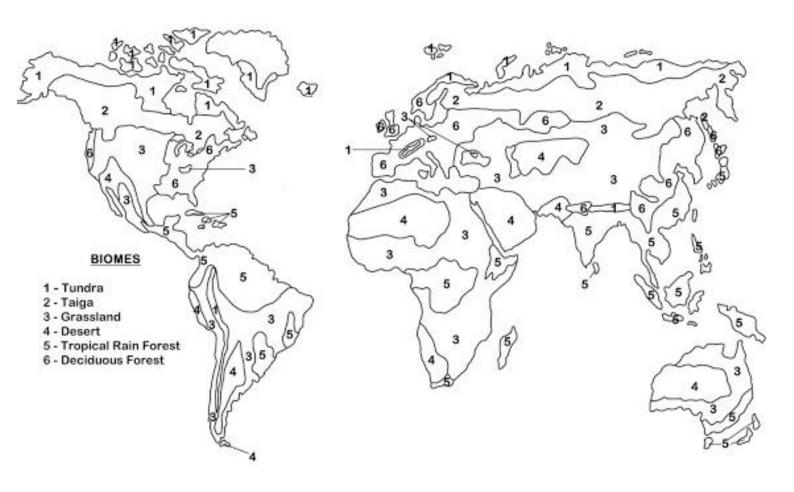
# Ecosystems pg. 20-21

1. An ecosyste		non-living (abiotic) parts of an area. Define the key terms
Ecosystem		
Producer		
Consumer		
Food Chain		
Decomposer		
Nutrient Cycle		
Biodiveristy		
	e of an ecosystem – An example of a sm and <u>consumers</u>	nall scale ecosystem. Draw the food web. Label the:
Slapton Ley Reed I	Bed	
	one part of an ecosystem have a knocl being trimmed	on effect. Describe the impact of a hot summer and the
Drought dries up t	he pools	Nutrient-rich runoff from farmland enters the lagoon

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### Global ecosystems - pg. 22

1. World's ecosystems. Give the map a title and compass. Then colour in the map using the key.



2. Characteristics of the global ecosystems. Fill in the table with the location and characteristics

Tundra	
Temperate	
deciduous	
forest	
Grassland	
Hot	
Deserts	
Tropical	
Rainforests	
Polar	

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# Tropical rainforests pg.23-24

Climate		Soil	
Plants		Animals	
	People		
2. Rainforests are <b>interdependent</b> ed	cosystems.		
nswer the questions			
1. Why is the surface soil high in nut	rients?		
2. Why are animal populations high?	?		
3. How does deforestation contribute	e to alohal warming and	drought?	

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	4. What would hap	pen if the Agouti became	extinct?				
Tro	pical Rainforests – Bi	odiversity pg. 25					
	1. Plants and anima	al's adaptations. <i>Explain he</i>	ow plants and animal	s have	e adapted to	their environn	nent.
	Feature of plant or animals	How does this help the p	olant or animal surviv	e?			
	Buttress roots						
	Drip tip leaves						
	Emergent trees						
	Suction cups						
	Short wings						
	Camouflage						
	Swimming						
	<ol> <li>Rainforests have there). Answer the second of the second of</li></ol>		50% of the world's pla	int, ar	nimal and inso	ect species are	e found
	2. Why are anii	mals and plants vulnerable	e to change in the TRF	?			
•••••				•••••••			

3. How is defores	tation and developmen	t changing the tropical re	ainforest?	
cal Rainforests – Defe	orestation ng 26			
		opical rainforest. <i>Explain</i>	why the TRF is cut	t down
Reasons	Why has this lead to o	leforestation?		
Population Growth				
Mineral Extraction				
Energy				
Development				
Commercial				
Logging				
Commercial				
Farming				
Subsistence Farming				
Pata of deferestati	ion. Complete the sente	ncos		

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# Deforestation CASE STUDY – Amazon Rainforest, South America Pg. 27

Where:	Venezuela Guyana Suriname French Guiana
What:	Ecuador
When:	Peru Brazil
Causes	Bolivia
Environmental impacts (x2)	Economic impacts

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# Tropical Rainforests – Sustainable management. Pg. 28

**Sustainable Development**: Meeting the needs of today's population without compromising the needs of future generations

1. It is important to protect the TRF. Explain why it is important to protect the TRF

Products:  Long-term economic benefits:  Greenhouse effect  Climate and the water cycle:  2. Sustainable management strategies. Fill in the boxes with information about each strategy.  Selective logging: only cutting down certain trees  Replanting: replacement of trees   Ecotourism: tourism that benefits, people, the environment and the economy.	Biod	diversity:		
Climate and the water cycle:  2. Sustainable management strategies. Fill in the boxes with information about each strategy.  Selective logging: only cutting down certain trees  Replanting: replacement of trees people, the environment and the	Pro	ducts:		
Climate and the water cycle:  2. Sustainable management strategies. Fill in the boxes with information about each strategy.  Selective logging: only cutting down certain trees  Replanting: replacement of trees down certain trees  Ecotourism: tourism that benefits, people, the environment and the	Lon			
2. Sustainable management strategies. Fill in the boxes with information about each strategy.  Selective logging: only cutting down certain trees  Replanting: replacement of trees become to the environment and the	Gre	enhouse effect		
<ol> <li>Sustainable management strategies. Fill in the boxes with information about each strategy.</li> <li>Selective logging: only cutting down certain trees</li> </ol> Replanting: replacement of trees people, the environment and the	Clim			
down certain trees people, the environment and the	•••••	Sustainable management strateg		
			Replanting: replacement of trees	people, the environment and the

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# Tropical Rainforest – Sustainable Management pg. 29

1. Sustainable management strategies. Fill in the boxes with each management strategy

International Hardwood Agreements	Education
Reducing debt	Conservation

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# Hot Deserts - Pg. 30

1. Hot deserts are found in Hot and Dry Climates. *Describe the characteristics of the Hot Deserts by filling in the table* 

Climate	Animals	People
Soil		
Plants	_	
2. Hot Deserts are fragile, interdependent ecosystem	ns. Answer the following quest	tions.
1. How do plants spread their seeds?		
<ol><li>Why do plants struggle to grow in a Hot Deser</li></ol>	rt?	
3. Why is there a low density of animals?		
4. How does the small amount of rainfall affect t	the Hot Desert?	
5. What is Soil Erosion and how can it impact the	e Hot Desert Ecosystem?	

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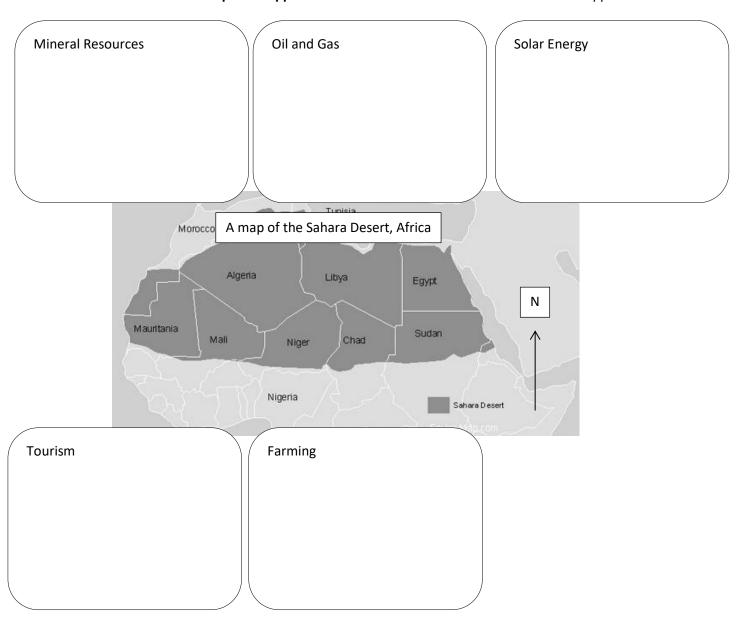
# Hot Deserts – Biodiversity pg. 31

1. Plants and animals are adapted to the Hot, Dry Climate. *Explain how plants and animals have adapted to their environment.* 

Feature of plant or animals	How does this help the plant or animal survive?
Roots	
Thick waxy skin	
Small leaves	
Seeds	
Nocturnal	
High body temperatures	
Camels Hump	Thick woolly fur protects from the  Two rows of long sun during the day and keeps warm at night.
Triple eye lid and long eye lashes	Nostrils can be closed in sand storms.  Fat stored in hump provides three weeks of food.
Where are most humai	Tough, leathery mouth for eating thorny plants.  Inigher in areas with water. Answer the questions  Long powerful legs ideal for walking long distances over difficult terrain.  Tough, leathery knee pads for kneeling on rocky ground.  Produces concentrated urine and dung.  Broad flat hooves distribute weight on the sand so the camel doesn't sink in.
How are humans impa	cting on the Hot Desert Ecosystem?
Why are many animals	under threat from extinction?

# Hot Deserts - CASE STUDY pg. 32

1. There are lots of **Development Opportunities** in the Sahara. Fill in the boxes with the opportunities



2. Challenges to development. Fill in the boxes with the challenges

Extreme Temperatures	Inaccessibility (poor transport links)	Water supply

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# Desertification – pg 33.

Desertification: the process by which fertile land becomes desert

1. Desertification is caused by Human and Physical (natural) factors. Fill in the table.

Physical Causes: Climate Change	Human Causes	

2. The risk of desertification can be reduced by different management strategies. *Mind map the four examples*.

Strategies to reduce desertification

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Revision summary. Pg. 38. Answer the questions in the space	e below. Nur	nber them.	

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### The UK Physical Landscape pg. 39

Cities tend to be located in areas of ....... For example ......

2. Map of the UK. With a ruler and pencil annotate on the UK landscapes – River Clyde lower Valley, lake District, Snowdonia, Dorset Coats, the Fens, Holderness Coast, Grampian Mountains



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### Coastal Weathering and Erosion Pg. 40

1.	Weathering is the breakdown of rocks where they are, erosion is when the rocks are broken down and
	carried away by something e.g. seawater. Explain how Mechanical Weathering and Chemical Weathering
	breakdown rocks.

Weathering	Definition	How does it work?
	The breakdown	
	of rock without	
	changing its	
Mechanical	chemical	
	composition	
	The breakdown	
	of rocks by	
	changing its	
Chemical	chemical	
	composition	

2. Mass movement is when material falls down a slope because of gravity. It is much more likely to happen after heavy rainfall, as it makes the slope slippery. *Draw a labelled diagram of each type of mass movement*.

Slides	Slumps	Rockfalls	

3. Three types of erosion wearing away coasts. *Fill in the table*.

Туре	How does it work?
Hydraulic	
Power	
Abrasion	
Attrition	

4. Destructive waves cause erosion. Draw a labelled diagram of a destructive wave

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# Coastal Transportation and Deposition pg. 41

Diagram of Lo	ngshore Drift	
8		
How does it w	ork? (explain in your own words)	
1. There a	re four process of transportation. Complete th	e table.
Туре	Definition	Diagram
Traction		
Saltation		
Saltation		
Suspension		
·		
Solution		
2 Donosit	ion. Answer the question	
	ion. Answer the question	2
1. VVII	at is deposition? Where and when does it hap	Jenr,
3. Constru	ictive waves. Draw a labelled diagram of a coi	structive wave.
	3 ,	

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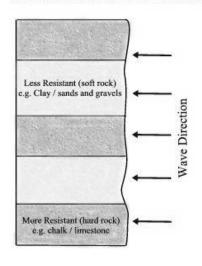
# Coastal Landforms – Caused by Erosion pg. 42

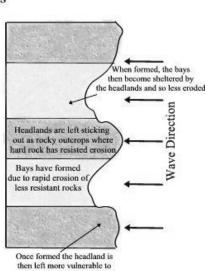
1. Waves Erode Cliffs to form Wave Cut Platforms. *Draw an annotated diagram of the formation.* 

1	2	3	4	5

2. Headlands and Bays. Explain how headlands and bays are formed.

The Formation of Headlands and Bays





	•••••	••••••	 	 •••••
ı			 	 
			 •••••	 
			 •••••	 

3. Caves, Arches, Stacks and Stumps. Draw an annotated diagram of Caves, Arches, Stacks and Stumps

erosion and the waves energy is

 aves, filenes, stacks and stamps. Braw an annotated diagram of eaves, filenes, stacks and stamps

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# Depositional Landforms along the coastline Pg. 43

**1.** Beaches, Spits, Bars and Sand Dunes are all created by deposition. In the boxes explain how they form. You can use diagrams if you wish.

Beaches	the beach building process
	month week wind hour day week waves
Spits	
	fastest river current  prevailing winds  original conditive saltmarsh fastest river current  second most dominant wind and fetch
Bars	Formation of a Bar
	Lagoon (area of water dammed by the bar) - this will gradually be infilled by deposition  Old Bay  BAR  A bar is formed as a spit grows across a bay joining up two headlands  Prevailing Wind Direction
Sand Dunes	Wind
	Sand Slip face
	Sand deposited here in calm air

### **Identifying Coastal Landforms pg 44**

1. Identifying Landforms caused by erosion. *Label Stacks, Cliffs and Wave Cut Platform. Describe their features on an OS Map.* 





2. Identify Landforms created by deposition. *Label Shingle beach, Sand beach, Spit. Describe their features on an OS MAP.* 



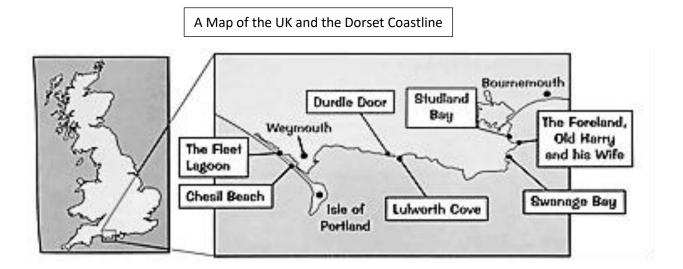




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### Coastal Landscapes – pg. 45

1. The Dorset Coast has examples of many coastal landforms. Fill in the boxes.



Durdle Door	Lulworth Cove
Chesil Beach	Swanage Bay, The Foreland and Studland Bay

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# Coastal Management Strategies pg. 46

1. Define the following key terms

3. Why does it create conflict?

Hard Engineering	g		
Soft Engineering			
2. Sea defer	nces. Fill in the table		
Defence	What is it?	Benefits	Costs
3. Managed	retreat. <i>Answer the questions</i>		
1. What is n	nanaged retreat?		
2. Why and	when is it used?		

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# Coastal management – EXAMPLE – Lyme Regis p. 47

**1.** Complete the table.

Z.
Why do the cliffs need protecting?
How is the coastline protected?
What are the positive effects of the management scheme?
What conflicts has the management scheme caused?
In your own opinion, is the management scheme a success or a failure? Explain your answer using chains of reasoning.

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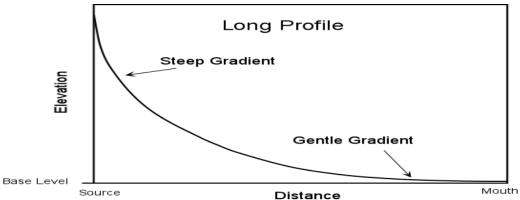
## The River Valley pg. 49

1. Define the following key terms

Upper course	
Middle course	
Lower course	
Long Profile	
Cross profile	
Vertical erosion	
Lateral erosion	

1. The long profile and cross section of a river. Label on the upper, middle and lower course. Complete the table

below.



Course and gradient		
Valley and channel shape		
Cross profile		

2. Vertical and Lateral Erosion. Describe and draw a diagram for each one.

Vertical Erosion	Lateral Erosion

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### **Erosion, Transportation and Deposition pg. 50**

1. Erosion, Transportation and Deposition. *Fill in the tables with the types of erosion and transportation.* 

Types of Erosion (the wearing down of material by the river)

Hydraulic Action	Abrasion
Attrition	Solution
Types of Transportation (the movement	of material by the river)
Traction	Suspension
Saltation	Solution
2. Deposition (the dropping of mat	terial). Explain why a river deposits materials.
Reason 1	
Reason 2	
Reason 3	
Reasons 4	

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## River Landforms in the Upper Course – Erosion pg. 51

1. Waterfalls and Gorges are found in the Upper course. Draw an annotated diagram of waterfall formation

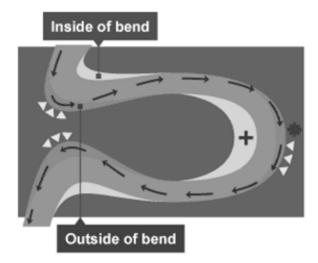
2. Interlocking S	Spurs. Label the interlocking	cours on the image and	l ovalain how thou form	
Z. Interlocking S	phars, raper the interlocking	spurs on the image and	explain now they form	

How are interlocking spurs formed?

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## River Landforms in the Middle Course – Meanders (Erosion and Deposition) pg. 52

1. Meanders. Annotate the diagrams.



2.	Cross profile of a meander. Draw a labelled diagram of a cross profile for a meander

3. Ox-Bow Lake formation. Draw a three stage diagram showing the formation of an Ox-box lake

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2	4	6

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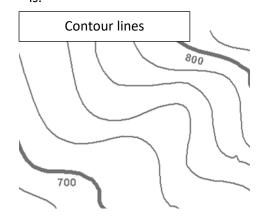
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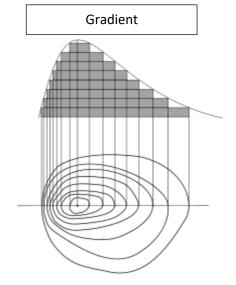
# River Landforms – Deposition – Lower Course pg. 53

1. Flood plains. Describe flood plains			
2. Levees are natural embankmer	its. Draw a diagram	of their formation	
1	2		3
3. Estuaries are tidal areas where	the river meets the	sea. <i>Draw a diagra</i>	m of the estuary at high and low tide
High Tide		Low Tide	
How are estuaries formed?			

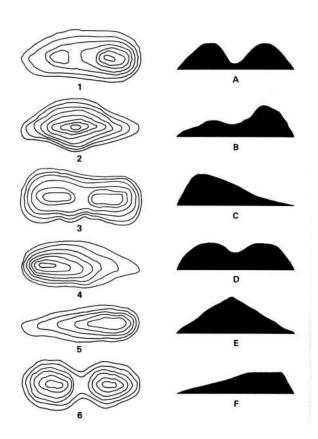
#### Identifying River Landforms pg. 54

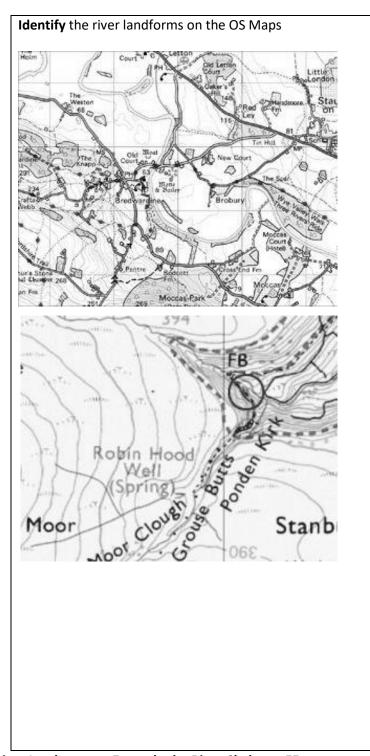
1. Contour lines – Join areas of equal height. Shown in orange on an OS map. The numbers refer to the number of meters above sea level. So for example the contour lines below show a line that is 700m above sea level and 800m above sea level. The second image shows that the closer the lines are together the steeper the hill is.





Match the lines with the correct hill





River Landscapes - Example the River Clyde pg. 55

1. The River Clyde flows through Scotland. Fill in the tables

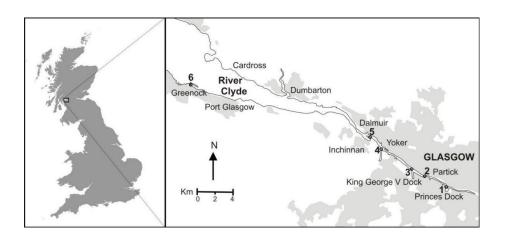
Describe the location			
Describe the river			

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#### Describe the features

What is it? Where is it found?



# River Discharge and flooding. Pg. 56

1. Hydrographs. *Draw a sketch of a hydrograph* 

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Define the key ter	ms	·		·
Discharge				
Peak discharge				
Lag time				
Rising Limb				
Falling Limb				
Infiltration				
Surface run-off				
River Channel				
2. Rivers Floo	od due to physical and Human F	actors. Fill in the table		
Human Causes		Physical Ca	uses	
<b>4.</b> Define the	e following key terms			
Hard Engineering				1

Soft Engineering

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**5.** Sea defences. Fill in the table

Defence	What is it?	Benefits	Costs

_				
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-			

# Flood Management Example: Oxford pg. 58

1. Fill in the table

When did it flood?	
Why does Oxford need flood defences?	
Wity does Oxiora freed flood defendes:	
Describe the flood management scheme.	

3. Economic and Environmental Issues. Complete the table

Social	Economic	Environmental

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Revision summary. Pg. 59. Answer the questions in the space	e below. N	umbe	r them.				
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