Write your name here	
Surname	Other names
Edexcel GCSE	Centre Number Candidate Number
Caaguank	A
Geograph Unit 2: The Natural	
	Environment Foundation Tier
Unit 2: The Natural Friday 17 June 2011 – Mor	Foundation Tier Paper Reference

Instructions

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- In Section **A** answer only **one** question from questions 1, 2, 3 **or** 4.
- In Section **B** answer **either** question 5 **or** 6.
- Answer the questions in the spaces provided
 - there may be more space than you need.

Information

- The total mark for this paper is 50.
- The marks for **each** question are shown in brackets
 - use this as a guide as to how much time to spend on each question.
- Questions labelled with an asterisk (*) are ones where the quality of your written communication will be assessed
 - you should take particular care on these questions with your spelling, punctuation and grammar, as well as the clarity of expression.

Advice

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Check your answers if you have time at the end.





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SECTION A – THE PHYSICAL WORLD

Answer only ONE question from Section A.

Indicate which question you are answering by marking a cross in the box \boxtimes . If you change your mind, put a line through the box \boxtimes and then indicate your new question with a cross \boxtimes .

Some questions must be answered with a cross in a box \boxtimes . If you change your mind about an answer, put a line through the box \boxtimes and then mark your new answer with a cross \boxtimes .

Topic 1: Coastal Landscapes

If you answer Question 1 put a cross in this box \square .

1 (a) Look at Figure 1a.

It shows the wave fetches from Sefton, near Liverpool.

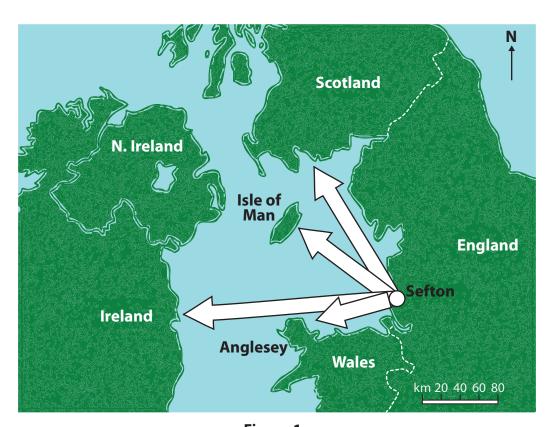


Figure 1a

(i) Which place has the longest wave fetch from Sefton?

- **A** Ireland
- **B** Anglesey
- D Scotland



ii) Complete the sentences to explain the effect of wave fetch on the coastline. Use some of the words in the box below. (5) Anglesey time more distance greater smaller Scotland Fetch is the over which waves can build up. If there is a fetch then the waves will have more energy. This can result in erosion taking place. On Figure 1a the fetch from Sefton to is greater than the fetch from Sefton to v) Outline the differences between constructive and destructive waves.	■ D 40						.i.
Fetch is the over which waves can build up. If there is a fetch then the waves will have more energy. This can result in erosion taking place. On Figure 1a the fetch from Sefton to is greater than the fetch from Sefton to v) Outline the differences between constructive and destructive waves.					ct of wave fe	etch on the c	
If there is a fetch then the waves will have more energy. This can result in erosion taking place. On Figure 1a the fetch from Sefton to is greater than the fetch from Sefton to v) Outline the differences between constructive and destructive waves.	Anglesey	time	more	distance	greater	smaller	Scotland
energy. This can result in erosion taking place. On Figure 1a the fetch from Sefton to is greater than the fetch from Sefton to v) Outline the differences between constructive and destructive waves.	Fetch is the	2		over wh	nich waves ca	an build up.	
This can result in erosion taking place. On Figure 1a the fetch from Sefton to is greater than the fetch from Sefton to v) Outline the differences between constructive and destructive waves.	If there is a	l		fetch the	en the wave	s will have m	ore
On Figure 1a the fetch from Sefton to is greater than the fetch from Sefton to v) Outline the differences between constructive and destructive waves.	energy.						
than the fetch from Sefton to	This can re	sult in		er	osion taking	place.	
v) Outline the differences between constructive and destructive waves.	On Figure	1a the fet	ch from Se	efton to		is grea	ater
	than the fe	tch from	Sefton to		······•••		
	iv) Outline the	e differenc	es betwe	en constructi	ve and destr	uctive wave	

(b) (i)	One type of mass movement is	(**	1)
	■ B weathering		
	☑ C soil creep		
	☑ D soil erosion		
(ii)	State one impact of slumping on the coa		1)
 (c) (i)	Deposition mainly occurs when the	(1	1)
	■ A waves have high energy causing	material to be dropped	
	■ B waves have lower energy causing	g material to be dropped	
	☑ C waves remove material from the	coastline	
	☑ D wind is mainly blowing offshore		

(ii)	Describe the formation of a spit.	
	Use a diagram in your answer.	(4)
		(-)
 ••••••		



())		
	ok at Figure 1b (photograph) in the Resource Booklet.	
lt s	shows an example of hard engineering.	
(i)	What type of hard engineering is shown in Figure 1b?	(1)
	□ A rock groyne	
	☑ B off-shore reef	
	☑ C managed retreat	
	☑ D revetment	
(ii)	Describe the advantages of hard engineering.	(3)

(iii)	Outline how the effects of coastal flooding can be reduced.	
	Use examples in your answer.	
		(4)
	(Total for Question 1 = 25 ma	rks)
	(Total for Question 1 – 25 mai	i K3)

Topic 2: River Landscapes

If you answer Question 2 put a cross in this box \square .

2 (a) Look at Figure 2a.

It shows how a river landform changed between 1900 and 2000.

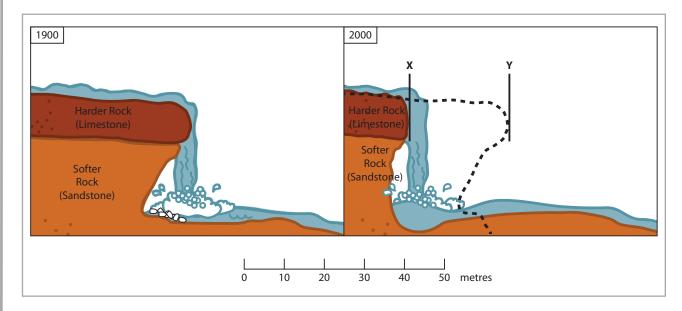


Figure 2a

(i) Which landform is shown in Figure 2a?

(1)

- **A** meander
- B embankment
- □ C interlocking spur
- D waterfall

(ii) How much has the hard rock moved back between **X** and **Y**?

- **B** 50 m

by erosion. Use some of the words in the box below. (5) faster limestone slower rapids sandstone gorge advance retreat The softer rock, _____, is weaker than the harder rock. This means it is eroded ______, creating an overhang. Over time, the harder will collapse, and fall into the plunge pool. Continued erosion will cause the of the landform (iv) Outline the differences between the upper stage and the lower stage of a river valley. (3)

(iii) Complete the sentences to outline how the landform in Figure 2a is affected

(b) (i)	One type of mass movement is	(1)
	☑ A attrition	
	■ B weathering	
	☑ D soil erosion	
(ii)	State one impact of mass movement on river landscapes.	(1)
(c) (i)	Deposition occurs in a river channel when sediment	(1)
	■ A particles collide in the flow of the channel	
	☑ B scrapes against the river bank	
	□ Is dissolved in the flow of the channel	
	☑ D is dropped due to slower flow in the channel	

(ii)	Describe the formation of levees.	
	Use a diagram in your answer.	(4)
		(4)



(d) Lo	ok at Fig	ure 2b (photograph) in the Resource Booklet.	
lt s	shows a	river flood in Cumbria in 2009.	
(i)	One e	nvironmental effect of this flooding was	(1)
	⊠ A	the railway tracks were submerged	
	⊠ B	the loss of wildlife habitat	
	⊠ C	there were 300 000 deaths	
	⊠ D	many people contracted diarrhoea	
(ii)	Descri lived t	be the effects of the flooding shown in Figure 2b on the people who here.	(3)

(iii) Outline how the effects of river flood	my can be reduced.		
Use examples in your answer.			(4)
	(7 . 16 . 0		
	(Total for Q	uestion 2 = 25 ma	rks)

Topic 3: Glaciated Landscapes

If you answer Question 3 put a cross in this box \square .

3 (a) Look at Figure 3a.

It shows the retreat of a glacier between 1980 and 1990.

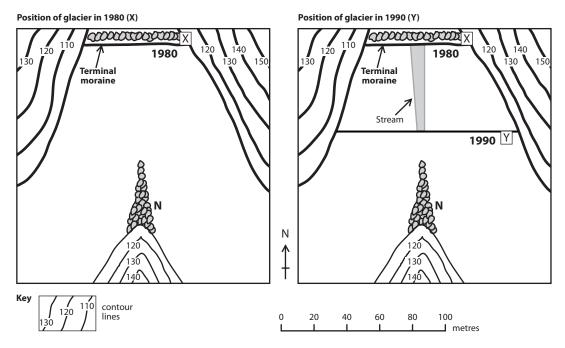


Figure 3a

(i) How far did the glacier retreat between **X** (1980) and **Y** (1990)?

(1)

- **B** 80 m

(ii) In which direction did the glacier retreat between **X** and **Y**?

- A towards the north
- **B** towards the east
- **C** towards the south
- **D** towards the west

(iii	What type of moraine is N on Figure 3a?	(1)
	■ A terminal	
	■ B medial	
	☑ C ground	
	☑ D lateral	
(iv	What is a terminal moraine?	(1)
(v)	Figure 3a is a map of a U-shaped valley.	
	Describe the features of a U-shaped valley.	(3)

(vi) Complete the sentences to outline the differences between lodgement and ablation.

ablation eroded pressed dropped advancing retreating increased

Use some of the words in the box below.

(5)

	Lodge	ement occurs when the glacier is	
	As the	glacier moves forwards, rock carried at the base of the glacier is	
		into the valley floor.	
		occurs when a glacier is retreating.	
		temperatures cause the glacier to melt.	
	The m	aterial it is carrying is then	
o) (i)	The ty	pe of weathering most likely to be found in upland glacial landscapes	is (1)
	⊠ A	biological	
	ВВ	freeze thaw	
	⋈ C	chemical	
	■ D	plucking	
(ii)	State (one impact of weathering on upland glacial landscapes.	
(11)	State	one impact of weathering on apiana glacial lanascapes.	(1)
c) (i)	Which	of the following processes is a type of glacial erosion?	(1)
			(1)
	⊠ A	freeze thaw	
	B	abrasion	
		ablation	
	\boxtimes D	lodgement	

(ii)	Describe the formation of an arête.	
	Use a diagram in your answer.	(4)
		(4)

(d)) Loo	k at Figure 3b in the Resource Booklet.	
	lt sh	nows a cartoon of people in an upland glaciated area.	
	(i)	Suggest the ways in which the people in Figure 3b could cause an avalanche.	(2)
	(ii)	Outline how the effects of avalanches can be reduced.	
		Use examples in your answer.	(4)
		(Total for Question 3 = 25 mar	rks)

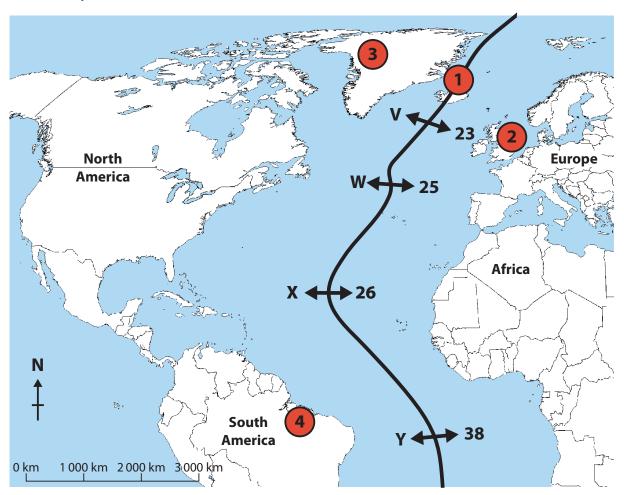


Topic 4: Tectonic Landscapes

If you answer Question 4 put a cross in this box \square .

4 (a) Look at Figure 4a.

It shows rates of plate movement along the Mid-Atlantic Ridge, a divergent plate boundary.



X 26 = movement in mm per year, at that point on the plate boundary

Figure 4a

(i) Which point on the Mid-Atlantic Ridge has the most movement per year?

- \mathbf{X} A V
- \square B W
- \square C X
- D Y

(ii)	Describe the movements shown along this plate boundary.	(3)
(iii)	On Figure 4a there are four red spots marked 1 to 4.	
	Which red spot shows the location of a volcano?	(1)
	△ A 1	
	⋈ B 2	
	☑ C 3	
	☑ D 4	
(iv)	State two features found at a convergent plate boundary and two features	
	found at a conservative plate boundary.	(4)
	Convergent plate boundary features	
	Conservative plate boundary features	

(v)	Comple		tences to c	describe wh	y volcan	oes occur at div	vergent p	olate	
	Use sor	me of the v	vords in the	e box belov	V.			(5)	
cor	vection	shield	magma	collapse	plate	earthquake	dome	eruption	
	At dive	rgent plate	e boundarie	es		causes			
			to ris	e to the sui	face.				
	This ca	uses the		t	to		and cra	ack.	
	When r	magma rea	ches the su	urface an		OC	ccurs fror	n	
	a volca	no.							
(b) (i)	If an area suffers from an earthquake with Mercalli Scale 12, what are the likely effects?								
	likely e	nects:						(1)	
	⊠ A	people do	not feel ea	arth movem	nents				
	⊠ B	complete	devastatio	n, all buildir	ngs desti	royed, ground r	noves in	waves	
	⊠ C	hanging o	bjects swir	ng, doors op	oen or cl	ose			
	⊠ D	some buil	dings or fo	undations a	ire dama	iged, small land	slides oc	cur	
(ii)	Outline	why poor	olo continu	o to livo in :	aroas aff	ected by eartho	uuakas		
(11)	Outilité	wily peop	ne continu	e to live iii a	areas arre	ected by earthq	juakes.	(3)	

	TOTAL FOR SECTION A = 25 MAI	okc .
	(Total for Question 4 = 25 ma	rks)
		(4)
(iii)	Outline the effects of a volcanic eruption or an earthquake.	
		(2)
(ii)	State how planning before the event can reduce the effects of an earthquake	
	■ D there was plenty of clean drinking water	
	■ C a main road was closed for one hour	
	■ B thousands of people had nowhere to live	
	☑ A schools were closed for the day	
(i)	One effect of the earthquake in Figure 4b was	(1)
	lows an area affected by a recent earthquake.	
It sh	and an area offer to dilay a respect continue realiza	



SECTION B – ENVIRONMENTAL ISSUES

Answer EITHER Question 5 OR Question 6.

Topic 5: A Wasteful World

If you answer Question 5 put a cross in this box $\ \square$.

5 (a) Look at Figure 5a.

It is a pie chart showing types of waste in Surrey.

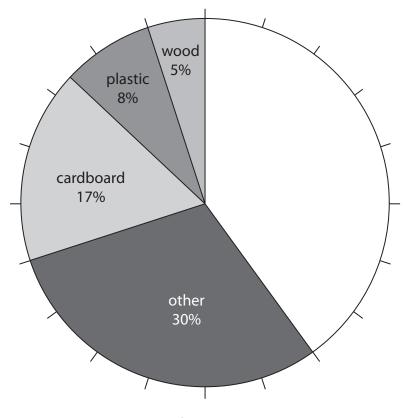


Figure 5a

(i) Complete the pie chart.

Use the data in the table below.

(2)

Type of waste	Percentage (%)
Food	10
Paper	30



	Use some of the words in the box below.									
	HICs	LICs	food	plastic	garden	packaging	waste			
	People in have more money.									
	This means that they are able to buy products which come with									
	lots of									
	This car	n lead to			and paper w	aste.				
	People	in HICs ca	ın easily bu	ıy		from supermark	ets.			
	Often p	eople bu	y more tha	n they can e	at, leading to)	•			
(iii)	Outline	how HIC	s disnosa o	of domestic v	wasto					
(111)	Outilite	TIOW TIC	s dispose d	n domestic v	vasie.		(3)			
Loo	k at Figu	ıre 5b in t	he Resourc	ce Booklet.						
					Great Britain.					
(i)	Which i	nuclear po	ower statio	n generates	1001–1250 N	ЛW of power?				
							(1)			
	⊠ A	Bradwell								
	⊠ B	Torness								
	⊠ C	Chapelcro	OSS							

(ii)	Describe the distribution of nuclear power stations in Great Britain.	
	Use evidence from Figure 5b in your answer.	(3)
		(3)
(c) (i)	One advantage of renewable energy is	
		(1)
	☑ A it is very cheap to set up	
	☑ B people love wind turbines in their gardens	
	C it produces little carbon dioxide	
	☑ D it produces a lot of carbon dioxide	
(ii)	One advantage of non-renewable energy is it	(1)
		(1)
	■ A is clean energy	
	☑ B cheaper to produce	
	C produces lots of carbon dioxide	
	☑ D will last forever	
(iii)	State two disadvantages of renewable energy.	
		(2)



(d) (i)	What is a carbon footprint?	(1)
	☑ A the amount of garden waste per household	
	■ B the amount of greenhouse gases produced per househol	d
	☑ C the amount of domestic waste produced per household	
	lacktriangle D the number of car journeys made per household	
*(ii)	Explain how the UK can reduce its energy wastage.	
		(6)
	(Total for Questio	n 5 = 25 marks)



Topic 6: A Watery World

If you answer Question 6 put a cross in this box $\ \square$.

6 (a) Look at Figure 6a.

It is a pie chart of domestic water usage in Canada, a High Income Country (HIC).

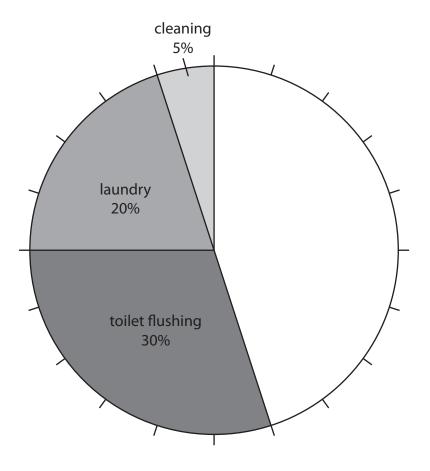


Figure 6a

(i) Complete the pie chart.

Use the data in the table below.

(2)

Water usage	Percentage (%)
Kitchen and drinking	10
Shower and bath	35



	Use some of the words in the box below.									
	less	HICs	more	LICs	dishwashers	boreholes	factories			
	House	hold wat	er usage is	s very hi	gh in	······································				
	In HIC	S		wa	ater is available an	d people often	use			
	machi	nes, such	as		······································					
	In			many h	omes do not have	e piped water.				
	Theref	Therefore they may have to walk several kilometres to collect clean								
	water from									
امما	J. at Fin	una Cla (m	\ i - + h -	Dogovija	sa Daaklat					
			ly probler		ce Booklet.					
(i)					oply problems.					
()					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		(1)			
	⊠ A	South w	est							
	⊠ B	South								
	⊠ C	South e	ast							
	⊠ D	East mic	dlands							
(ii)					supply problems	in England.				
	Use ev	idence fr	om Figure	e 6b in yo	our answer.		(3)			
•••••										

(iii)	Sugge	est reasons why some regions have serious water supply problems.	(3)
		can be managed effectively for agricultural purposes	
) (i)		can be managed effectively for agricultural purposes. of these agricultural uses wastes least water?	(1)
	⊠ A	24 hour sprinklers	
	■ B	using a hosepipe for 18 hours	
	⊠ C	drip irrigation which waters plants when needed	
	⊠ D	watering crops with 500 buckets a day	
(ii)	Which	of the following will help reduce water use in the home?	(1)
	⊠ A	having a bath	
	⊠ B	leaving the tap running while brushing your teeth	
	⊠ C	dripping taps	
	⊠ D	using a short flush toilet	
(iii)	State t	two ways water is managed by industry in HICs.	(2)
			-

(d) (i)	Appropriate technology is a method of water management in LICs. What is appropriate technology?	(1)
	■ A building large-scale projects such as dams	
	■ B small-scale schemes set up by the local community	
	☑ C importing water from HICs	
	☑ D high technology water pumps	

*(ii)	Choose an example of a water management scheme you have studied.			
	Explain the reasons for the scheme.	(6)		
	Chosen water management scheme:	(0)		
	(Total for Question 6 = 25	marks)		
	TOTAL FOR SECTION B = 25	MADKS		

TOTAL FOR PAPER = 50 MARKS

Edexcel GCSE

Geography A

Unit 2: The Natural Environment

Paper 2F and 2H

Friday 17 June 2011 - Morning

Resource Booklet

Paper Reference

5GA2F/01 5GA2H/01

Do not return the Resource Booklet with the question paper.

Information

This Resource Booklet contains maps and photographs needed for use with the Unit 2: The Natural Environment examination.

This Resource Booklet is for use with both foundation and higher tier papers.

Turn over ▶





SECTION A – THE PHYSICAL WORLD

Topic 1: Coastal Landscapes



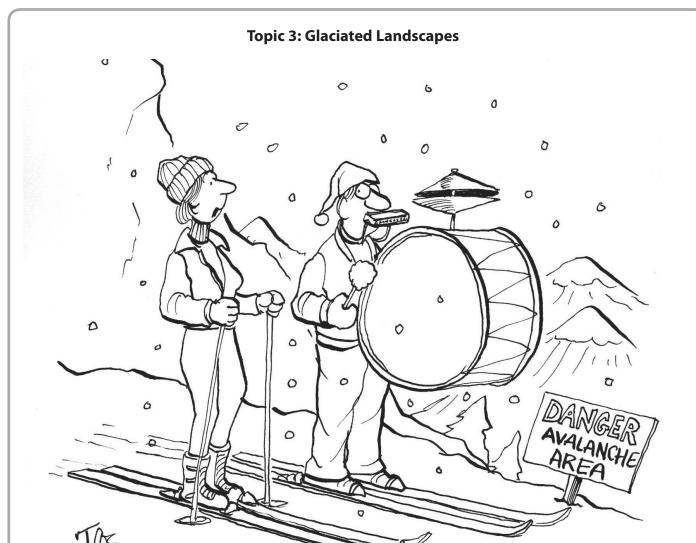
(By kind permission: S. Warren)

Figure 1b

Topic 2: River Landscapes



Figure 2b



"I sure am glad we came up here to practice for the Talent Show."

(Source: CartoonStock.com)

Figure 3b

Topic 4: Tectonic Landscapes



Figure 4b

SECTION B - ENVIRONMENTAL ISSUES

Topic 5: A Wasteful World



Figure 5b



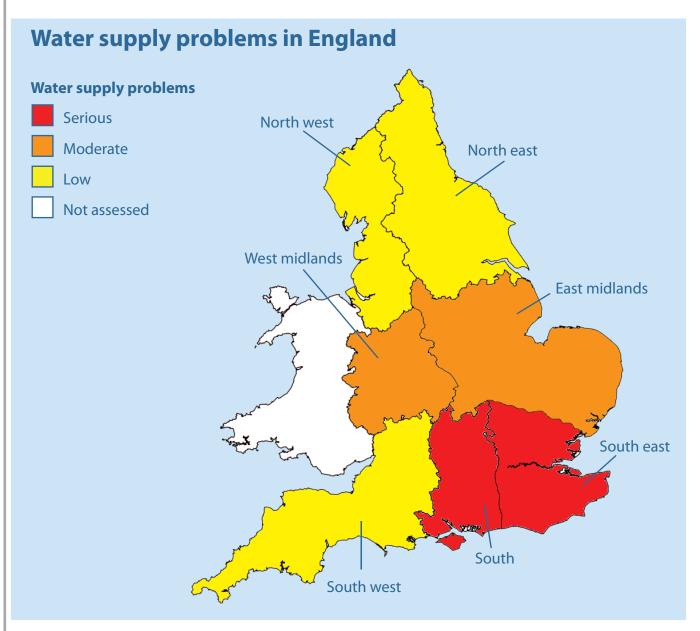


Figure 6b

