



Centre Number

71

Candidate Number

General Certificate of Secondary Education
2013

Geography

Unit 1:
Understanding Our Natural World
Higher Tier
[GGG12]



TUESDAY 4 JUNE, AFTERNOON

TIME

1 hour 30 minutes.

INSTRUCTIONS TO CANDIDATES

Write your Centre Number and Candidate Number in the spaces provided at the top of this page.

Write your answers in the spaces provided in this question paper.
Answer **all three** questions.

INFORMATION FOR CANDIDATES

The total mark for this paper is 108.

Figures in brackets printed down the right-hand side of pages indicate the marks awarded to each question or part question.

Quality of written communication will be assessed in Question **3(d)**.

Spelling, punctuation and the accurate use of grammar will be assessed in questions **1(i)** and **2(c)(iii)**.



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use only

Question Number	Marks
1	
2	
3	

Total
Marks

Examiner Only	
Marks	Remark

-
- The diagram illustrates a river system. A main river flows from the top center towards the bottom, where it enters the sea at point A. Several tributaries join the main river: one at point B (top left), one at point C (top right), one at point D (middle left), and one at point E (middle right). The land is colored green, and the sea is colored blue. A dashed line separates the land from the sea.
- Key**
- A = _____ = Where the river enters the sea.
- B = _____ = The start of a river.
- C = _____ = High ground which separates one drainage basin from another.
- D = _____ = Where two rivers meet.
- E = _____ = A small river which joins the main river.

Fig. 1

- (ii) Name **two** stores of water within the drainage basin system.

2. _____ [2]

(iii) State the meaning of the term **infiltration**.

[2]

Examiner Only	
Marks	Remark

- (e) Coasts are shaped by waves. State **two** facts about constructive waves.

[2]

- (f) Study **Fig. 3** which shows a labelled photograph of a coastal spit in Alaska called Homer Spit. Answer the questions which follow.



Source: Alaska ShoreZone Program NOAA/NMFS/AKFSC; Courtesy of Mandy Lindeberg, NOAA/NMFS/AKFSC

Fig. 3

Identify the **two** land uses (**X** and **Y**) shown in **Fig 3**. Choose your answers from the list below.

	Residential	Industry	Transport	Tourism
X				
Y				

[2]

(g) Explain the formation of a spit.

[6]

(h) Explain the formation of a wave-cut platform.

[6]

Examiner Only	
Marks	Remark

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(Questions continue overleaf)

Theme B: Our Changing Weather and Climate

Examiner Only	
Marks	Remark

- 2 (a) Study **Fig. 4** which shows a simple weather forecast about an anticyclone that is over Northern Ireland in July. Answer the questions which follow.

- A. The temperature will be a very warm 28 °C.
 B. The wind speed will be calm.
 C. Warm air will come from a south-easterly direction.
 D. There will be no rain.

Fig. 4

- (i) Using **Fig. 4** complete **Table 1** by writing in the names of the instruments that could be used to collect information on each of these elements of the weather forecast.

Table 1

Weather element	Instrument
A	
B	
C	
D	

[4]

- (ii) State the name of the air mass that is most likely to be responsible for this weather.

_____ [1]

- (iii) Explain why there will be no rain.

 _____ [3]

- (d) Study **Fig. 6** which shows the cities where international agreements on climate change have been discussed. Answer the questions which follow.



Fig. 6

- (i) Using **Fig. 6** state the name of the city where the 2011 international agreement on climate change was discussed.

_____ [1]

- (ii) Outline **two** challenges associated with securing international co-operation to deal with climate change.

_____ [4]

Examiner Only	
Marks	Remark

Examiner Only	
Marks	Remark

3 (a) Study **Fig. 7** which shows some rock types. Answer the questions which follow.

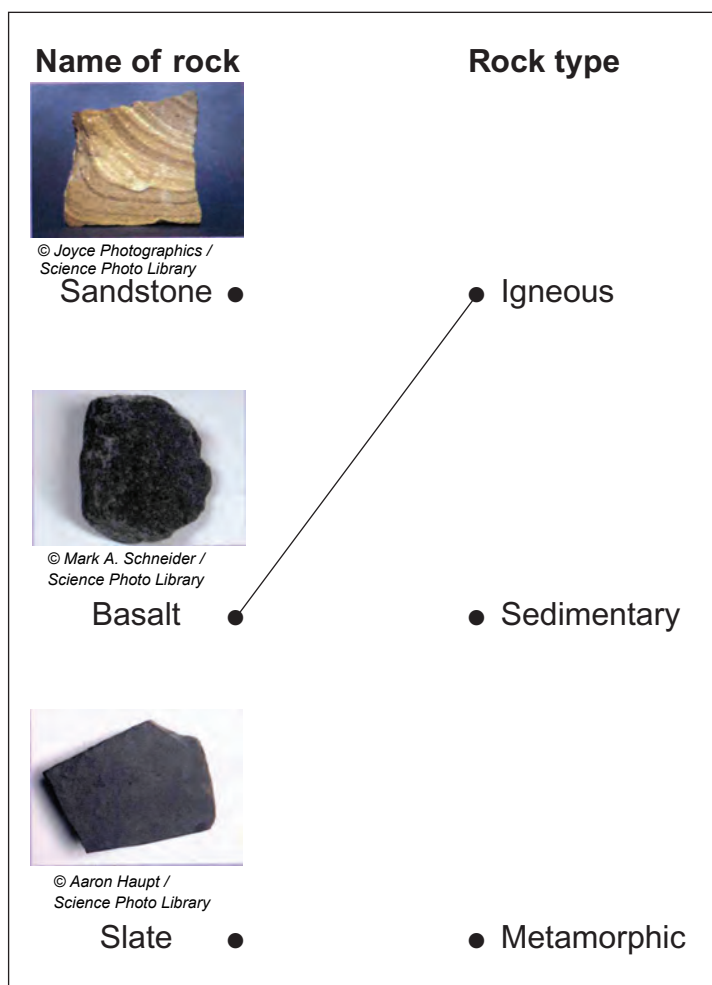


Fig. 7

- (i) Complete **Fig. 7** by matching the name of each rock to its rock type. One has been completed for you. [2]

- (ii) Explain how basalt is formed.

[3]

(ii) Use **Fig. 8** to help you to explain why plates move.

 [3]

(iii) Complete **Fig. 9** by drawing in arrows to show the direction of plate movement and mark the likely position of an earthquake focus with **X**.

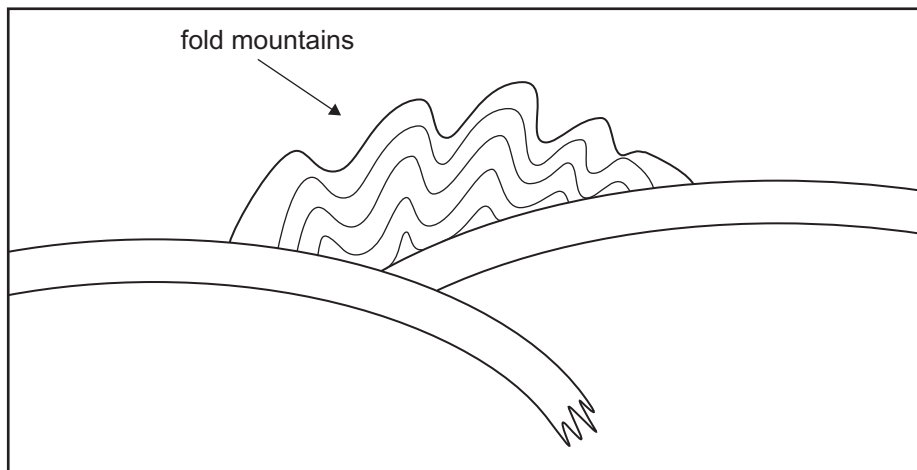


Fig. 9

(iv) Name this type of plate boundary.

 [1]

- (c) Study **Fig. 10** which shows a tsunami. Answer the questions which follow.



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Fig. 10

- (i) State the meaning of the term **tsunami**.

[2]

- (ii) Explain why an earthquake occurred in a **LEDC** which you have studied.

Name of LEDC _____

[3]

Examiner Only	
Marks	Remark

- (d)** For an earthquake in a **MEDC** which you have studied, evaluate the success of the precautions put in place before the earthquake happened. Refer to **two** precautions in your answer.

[illegible]

THIS IS THE END OF THE QUESTION PAPER

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