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Specification



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General Certificate of Secondary Education  
2010

## Geography

Unit 1:  
Understanding Our Natural World

Higher Tier

[GGG12]

MONDAY 14 JUNE, MORNING



StudentBounty.com

Centre Number	
71	
Candidate Number	

### 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** questions.

### INFORMATION FOR CANDIDATES

The total mark for this paper is 100.  
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 questions requiring extended answers.

For Examiner's use only	
Question Number	Marks
1	
2	
3	

Total Marks	
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6265

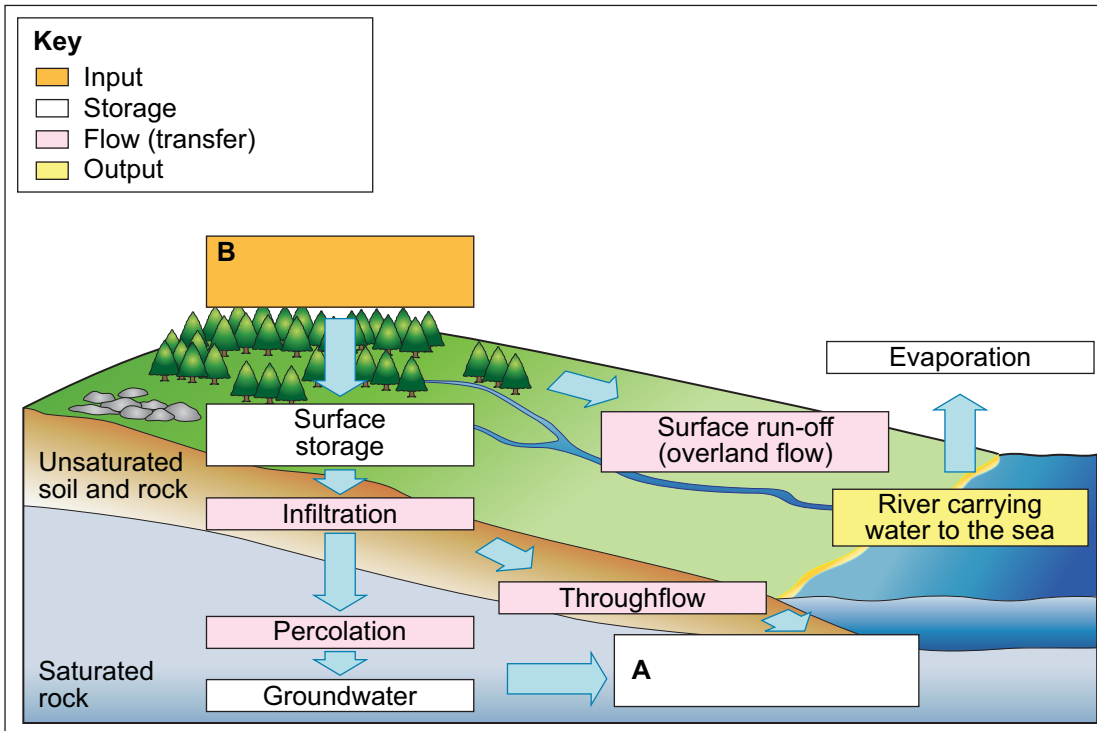
Answer **all** questions

Examiner Only

Marks Remark

**Theme A: The Dynamic Landscape**

**1 (a)** Study **Fig. 1** which shows how water moves within the drainage basin system. Answer the questions which follow.



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**Fig. 1**

**(i)** Complete **Fig. 1** by labelling the transfers at **A** and **B**. Choose your answers from the list below.

**groundwater flow    watershed    precipitation    discharge**

[2]

(ii) State the meaning of the term **interception**.

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[2]

(iii) Explain how heavy rainfall on wet ground might affect surface run-off.

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[3]

Examiner Only	
Marks	Remark

(b) Study **Fig. 2**, which shows a photograph of a waterfall in England.



© Ian Britton/FreeFoto

**Fig. 2**

Explain the formation and development of a waterfall such as the photograph in **Fig. 2**.

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[6]

Examiner Only

Marks Remark

(c) Explain how an engineering strategy might help to reduce the flood risk posed by a river.

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[3]

(d) For a river within the British Isles, describe and explain the physical and human reasons why it flooded.

Name of river \_\_\_\_\_

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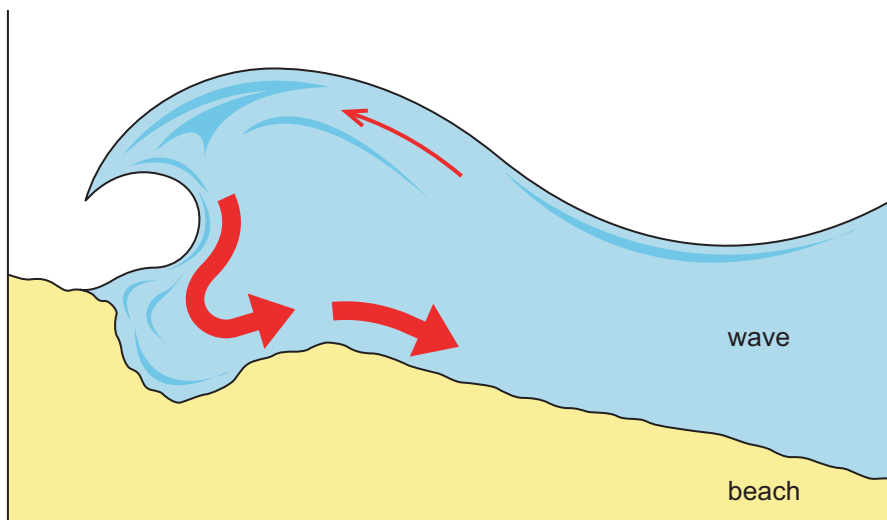
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[8]

Examiner Only	
Marks	Remark

(e) Study **Fig. 3** which shows a destructive wave. Answer the questions which follow.



Source: Principal Examiner

**Fig. 3**

(i) Explain why destructive waves erode coasts.

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[3]

(ii) Describe **one** of the coastal processes given in the list below .

- 1 Attrition      2 Abrasion      3 Hydraulic pressure**

Chosen process \_\_\_\_\_

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[2]

Examiner Only	
Marks	Remark

(f) Study **Fig. 4**, a photograph of a spit in Devon. Answer the questions which follow.

Examiner Only	
Marks	Remark



© Dawlish Warren Tourism

**Fig. 4**

Explain how a spit such as the one shown in **Fig. 4** was formed.

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[6]

**(g) (i)** Explain how groynes protect a beach.

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[4]

**(ii)** Suggest a possible conflict which might arise between tourism and industrial landuse in the coastal zone.

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[2]

**(h)** For **one** area in the British Isles, describe and evaluate the sustainability of its coastal management strategy.

Name of coastal area in British Isles \_\_\_\_\_

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Examiner Only	
Marks	Remark







**Theme B: Our Changing Weather and Climate**

Examiner Only	
Marks	Remark

**2 (a)** Study **Table 1** which shows two weather recording instruments. Answer the question which follows.

**Table 1**

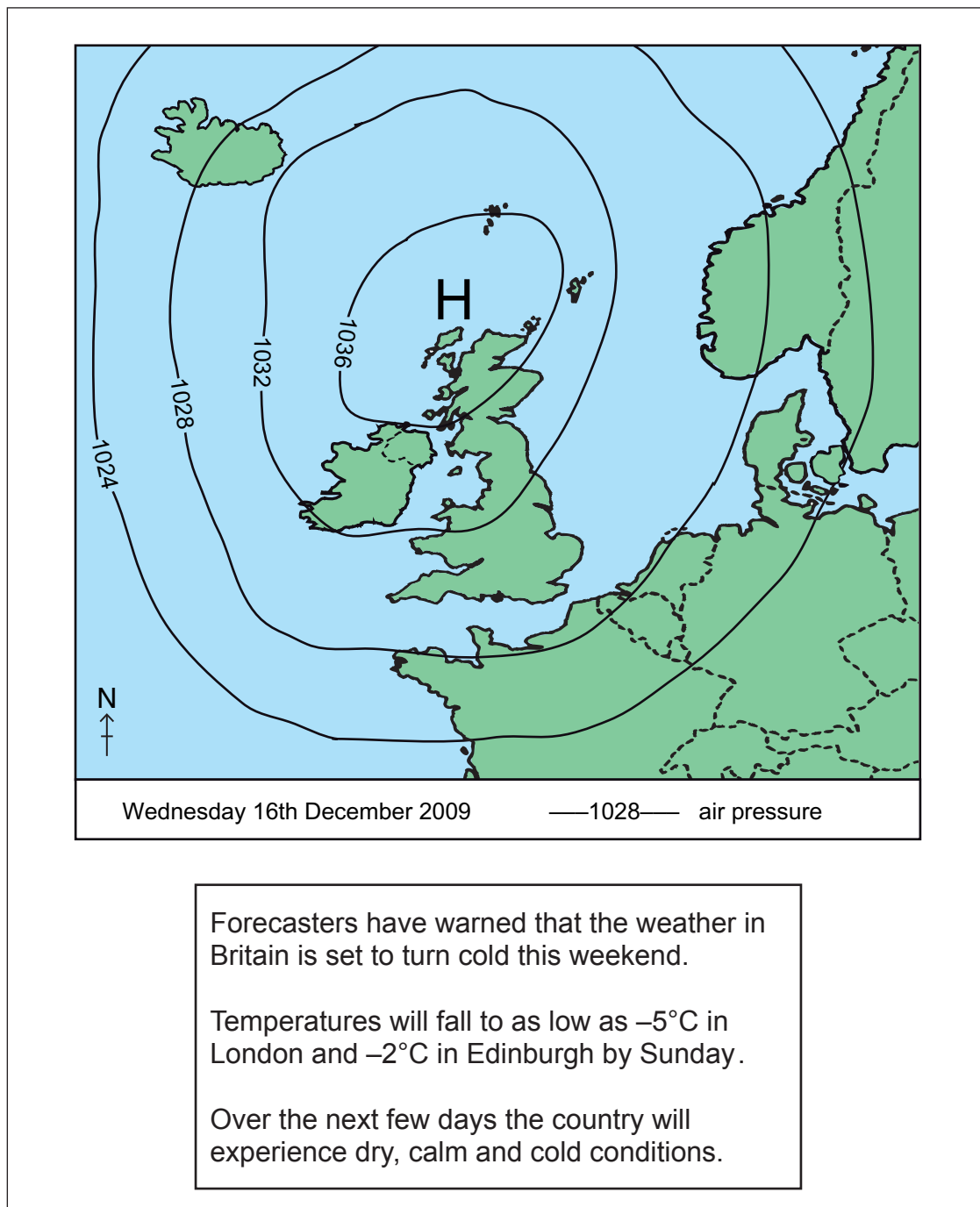
IMAGE OF INSTRUMENT	NAME OF INSTRUMENT	ELEMENT OF WEATHER RECORDED	UNIT OF MEASUREMENT
 <p>© CCEA</p>		<p><b>AIR PRESSURE</b></p>	
 <p>© CCEA</p>	<p><b>ANEMOMETER</b></p>		<p><b>KNOTS</b></p>

Complete **Table 1** by writing the correct answers in the blank boxes [3]



- (c) Study **Fig. 6** which shows a weather map and information about the weather system over the British Isles in December 2009. Answer the questions which follow.

Examiner Only	
Marks	Remark



**Fig. 6**

- (i) State the type of weather system over the British Isles on Wednesday 16th December 2009.

\_\_\_\_\_ [1]





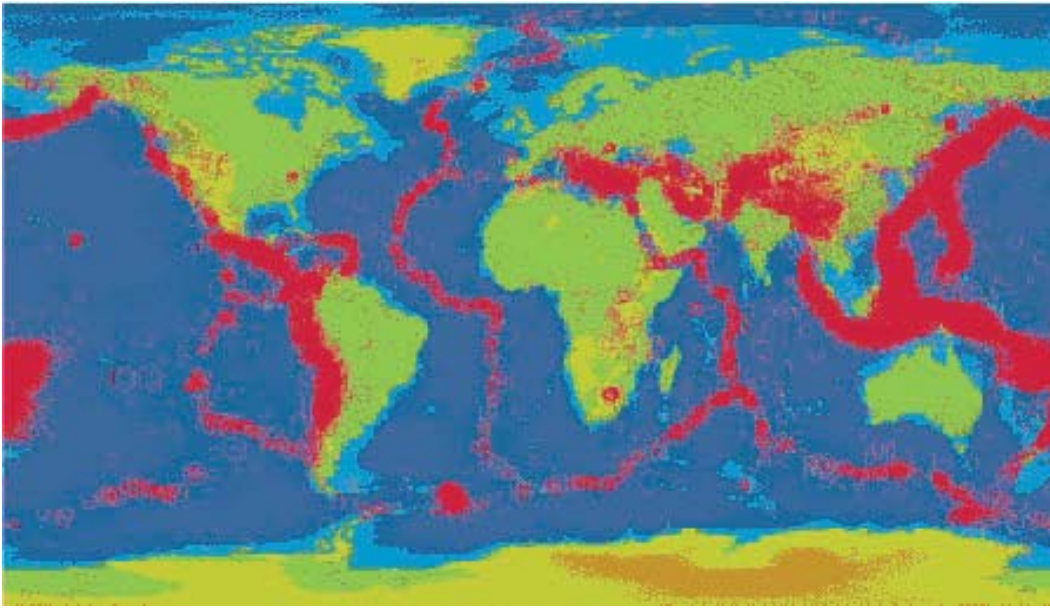






(c) Study **Fig. 9** which shows the global distribution of earthquakes. Each red dot is the epicentre of an earthquake. Answer the questions which follow.

Examiner Only	
Marks	Remark



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**Fig. 9**

(i) State the meaning of the term **epicentre**.

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[2]

(ii) Describe the global distribution of earthquakes shown on **Fig. 9**.

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[4]





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