



Rewarding Learning

General Certificate of Secondary Education
2025

Centre Number

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Candidate Number

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Geography

Unit 1

Understanding Our
Natural World



[GGY11]

GGY11

WEDNESDAY 14 MAY, MORNING

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.

You must answer the questions in the spaces provided.

Do not write outside the boxed area on each page or on blank pages.

Complete in black ink only. **Do not write with a gel pen.**

Answer **all four** questions.

You are provided with an O.S. map for use with **Question 2**.

Do **not** write your answers on this map.

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 **1(d)**, **2(d)** and **3(d)**.

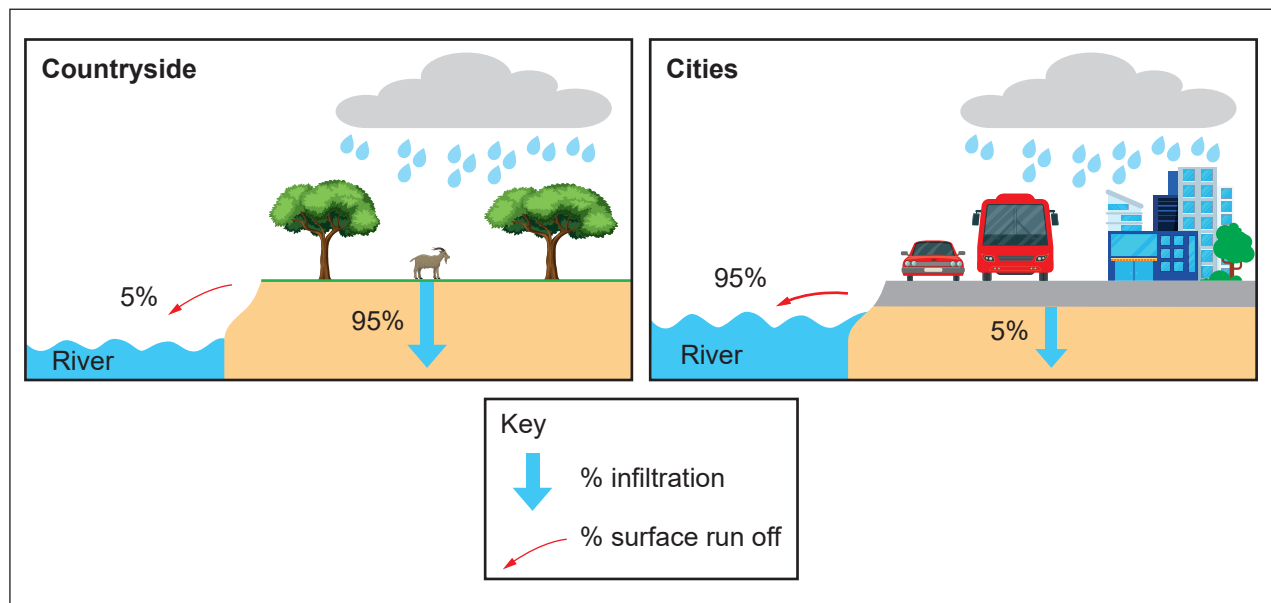
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28GGY1101

Theme A: River Environments

- 1 (a) The drainage basin system contains inputs, outputs, stores and transfers. Study **Fig. 1** and answer the questions which follow.



Source: Principal Examiner

Fig. 1

- (i) Complete **Table 1** below by identifying **one** input and **one** store shown in **Fig. 1**. A transfer has been completed for you.

Table 1

Drainage Basin Element	Example
Input	
Store	
Transfer	Infiltration

[2]



[5]

[Turn over



28GGY1103

- (c) With the number of flood events likely to increase in the future, sustainable methods of river management are being encouraged. Study **Photograph 2** of a washland during a flood and answer the questions which follow.



Source: © Getty Images

Photograph 2

- (i) Complete **Table 2** by drawing arrows to sort the causes of river flooding into physical or human. One has been completed for you.

Table 2

Physical	Cause of flooding	Human
←	Snowmelt	
	Heavy rainfall	
	Urbanisation	

[2]

[Turn over



(ii) Describe what washlands are and how they help to manage the risk of river flooding.

[3]



Quality of written communication will be assessed in this question.

[7]

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Theme B: Coastal Environments

2 (a) Study the Ordnance Survey extract showing part of the coast of Yorkshire, England and answer the questions which follow.

(i) State the height of the land shown by the triangulation pillar at Black Brow, Sleights Moor, GR 855049.

_____ m [1]

(ii) State the straight line distance from the viewpoint on the A169 Main Road GR 867059 to the viewpoint at Robin Hood's Bay GR 957058.

_____ km [2]

(iii) State the direction of Robin Hood's Bay GR 9505 from the East Pier in Whitby GR 9011.

_____ [1]

(iv) Whitby has a sandy beach. Underline the correct answer in the statements below about sandy beaches. One has been completed for you.

- Sandy beaches are usually found at **sheltered bays / exposed headlands**.
- The **finest / coarsest** particles of sand will be found at the wave limit further up the beach.
- Sandy beaches form where **constructive / destructive** waves operate.
- Sandy beaches have a **steeper / gentler** slope than shingle beaches.

[3]



(v) Robin Hood's Bay extends from GR 9505 to GR 9702. State **three** pieces of evidence from the map which show that this area is attractive to tourists.

1. _____

2. _____

3. _____ [3]

[Turn over

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28GGY1109

(c) Many coastal areas are under threat. Explain **one** possible impact of climate change on a coast which could lead to coastal defences being required.

[3]

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[Turn over



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28GGY1113

Theme C: Our Changing Weather and Climate

- 3 (a) Study **Photograph 3** which shows a digital thermometer. Answer the question which follows.



Source: © Getty Images

Photograph 3

Describe how a digital thermometer measures air temperature.

[5]



(b) A variety of sources of data are used to produce a weather forecast.

(i) State the meaning of the term **weather forecast**.

[2]

(ii) Complete **Table 3** below by naming sources of data which can be used for a weather forecast. One has been completed for you.

Table 3

Source of data for a weather forecast	Example
Land	Land-based weather station
Air	
Sea	

[2]

[Turn over



(c) The UK is affected by different weather systems. Study **Fig. 2** which is a satellite image of the UK during an anticyclone. Answer the questions which follow.



Source: Adapted from © Getty Images

Fig. 2

(i) Underline the correct words in the following statements relating to an anticyclonic weather system. One has been completed for you.

- An anticyclone is also known as a high / low pressure weather system.
- During an anticyclone in summer **mist** / **freezing fog** can be seen in the mornings.
- Winds move **clockwise** / anticlockwise within an anticyclone.
- The air in an anticyclone is **rising** / sinking.
- Anticyclones which last several weeks in the summer can cause a **heatwave** / **heatsurge**.

[4]



[6]

[Turn over



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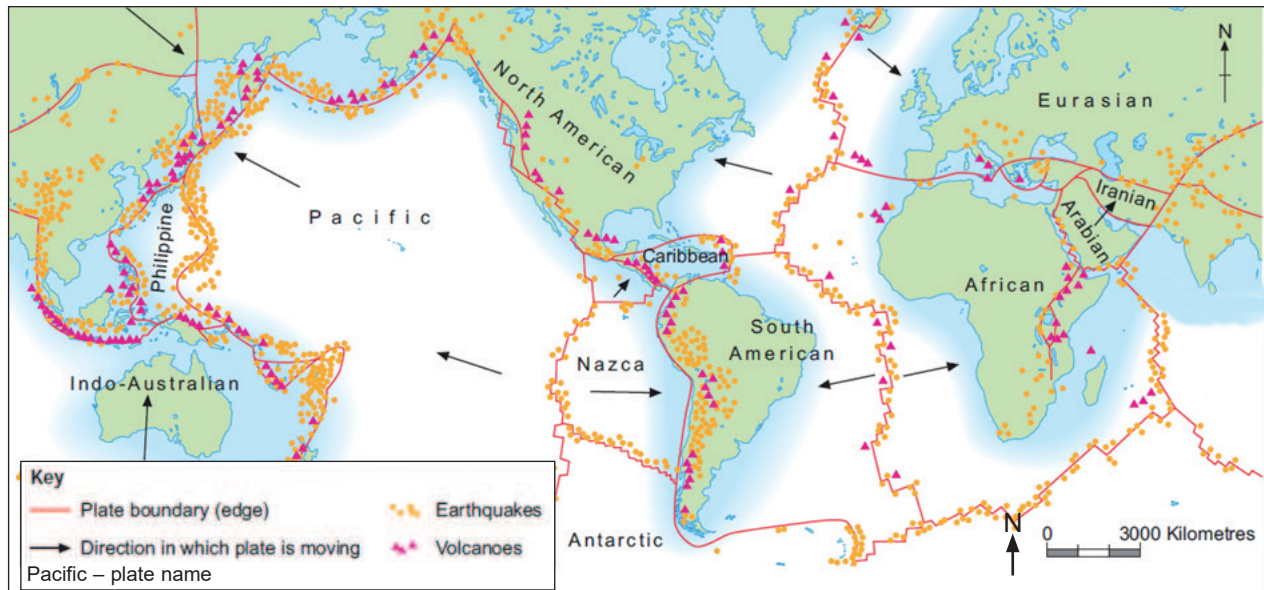
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28GGY1119

Theme D: The Restless Earth

- 4 (a) Study **Fig. 3** which shows the location of earthquakes and volcanoes around the world. Answer the questions which follow.



Source: Plate Tectonics - THE GEOGRAPHER ONLINE this work is licensed under Non Commercial 4.0 International - Creative Commons

Fig. 3

- (i) Using **Fig. 3** to help you, complete **Table 4** by inserting **TRUE** or **FALSE** beside the statement.
One has been completed for you.

Table 4

STATEMENT	TRUE / FALSE
Earthquakes and volcanoes are found around the Pacific Ocean.	TRUE
There are 12 named plates on Fig. 3 .	
Earthquakes are found on the east coast of North America.	
Volcanoes are found in Africa.	
The Nazca and the Pacific Plates are moving towards each other.	

[4]



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

[2]

(iii) Underline **one** potential consequence of an earthquake from the words below.

Tornado

Tsunami

Weathering

[1]

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[Turn over



28GGY1121

- (b) Study **Fig. 4** which shows the location of volcanoes in Indonesia. Answer the questions which follow.



Key

Active Indonesian Volcanoes

- ▲ Low Risk
- ▲ Medium Risk (increased volcanic activity)
- ▲ High Risk (eruption about to happen)

Source: *The Economist* <https://cdn.static-economist.com>

Fig. 4

- (i) Underline which of the following volcanoes in **Fig. 4** has the greatest potential for eruption.

Merapi

Krakatoa

Agung

[1]

- (ii) Underline the correct number of volcanoes on the island of Sumatra as shown in **Fig. 4**.

5

8

11

[1]



(iii) Indonesia is on a destructive plate margin. Explain why volcanoes occur at a destructive plate margin.

[4]

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28GGY1123

- (c) (i) Complete **Table 5** by naming the rock type beside the correct description of its formation. Choose your answer from the list below.

IGNEOUS

METAMORPHIC

SEDIMENTARY

Table 5

DESCRIPTION OF ROCK FORMATION	ROCK TYPE
These are rocks which have undergone change through heat and pressure within the Earth's crust.	
These rocks have been laid down in layers and compacted on the seabed.	
These rocks are formed when lava cools down.	

[3]

- (ii) Name **one** sedimentary rock.

[1]

- (iii) Describe and explain the difference in the size of crystals between basalt and granite.

[4]



(d) Name an earthquake in a MEDC or LEDC which you have studied. Describe the impacts of this earthquake on people.

[4]

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Question Number	Marks
1	
2	
3	
4	

Total Marks	
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Examiner Number

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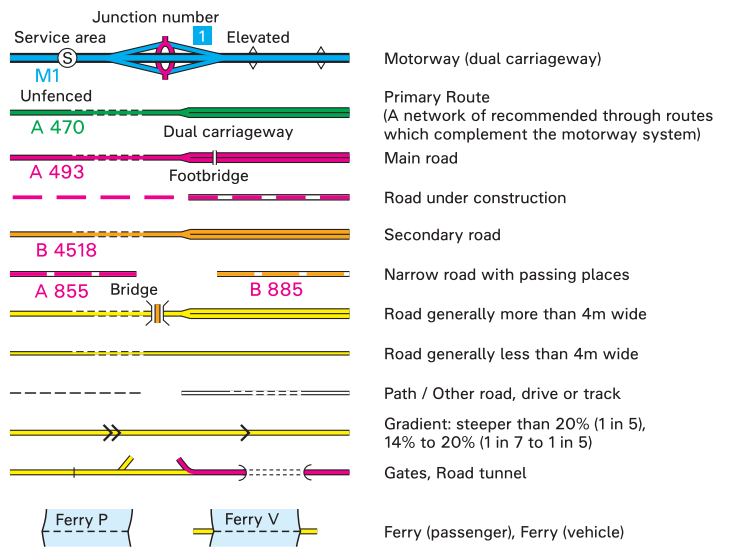
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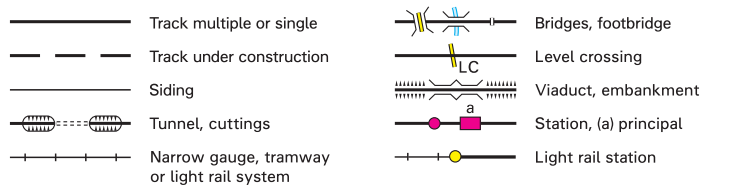


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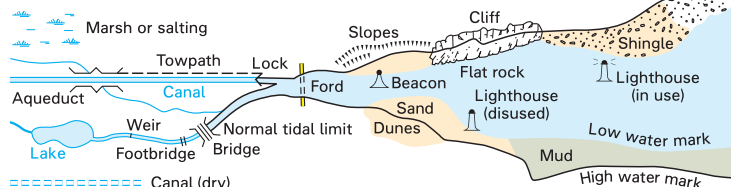
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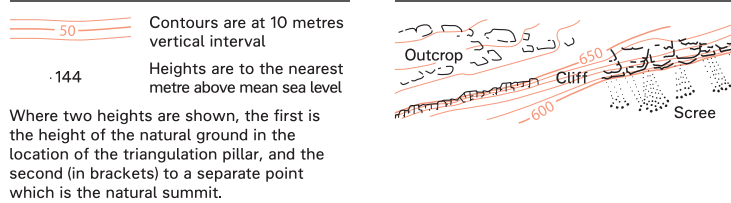
RAILWAYS



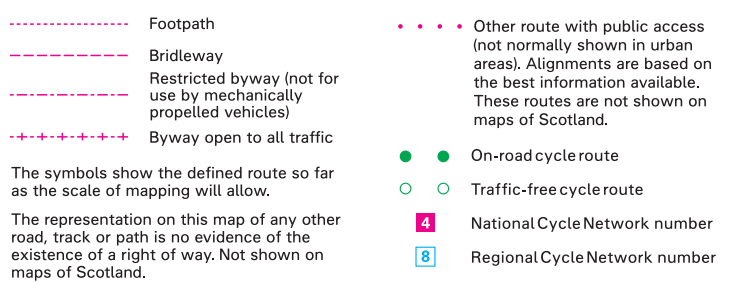
WATER FEATURES



HEIGHTS

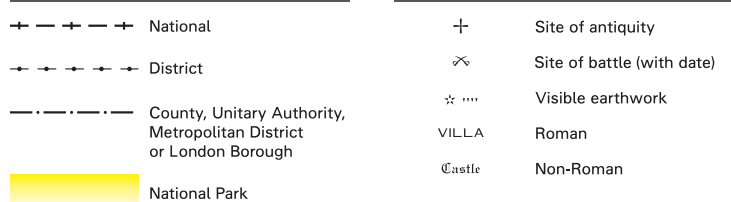


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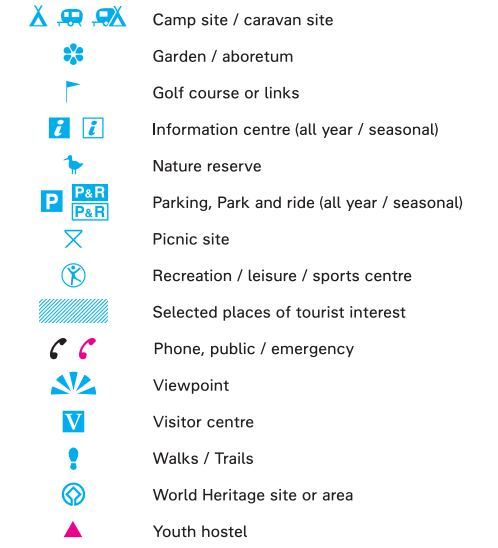


Danger Area
Firing and Test Ranges in the area. Danger! Observe warning notices.

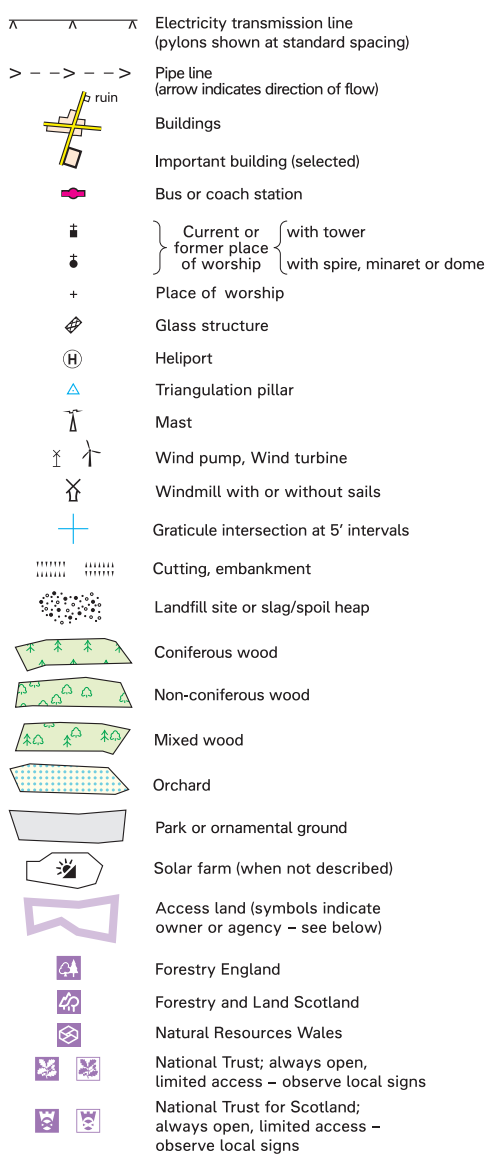
BOUNDARIES



TOURIST INFORMATION



LAND FEATURES



ABBREVIATIONS

Br	Bridge	MS	Milestone
Cemy	Cemetery	Mus	Museum
CG	Cattle grid	P	Post office
CH	Clubhouse	PC	Public convenience (in rural areas)
Fm	Farm	PH	Public house
Ho	House	Sch	School
Hospl	Hospital	TH	Town Hall, Guildhall or equivalent
MP	Milepost	Univ	University

