



GCSE

C111U10-1



FRIDAY, 17 MAY 2024 – AFTERNOON

GEOGRAPHY A – Component 1
Changing Physical and Human Landscapes
1 hour 30 minutes plus your additional time allowance

Surname

First name(s)

Centre Number

Candidate Number

0

ADDITIONAL MATERIALS

In addition to this paper you may use a calculator and ruler if required.

INSTRUCTIONS TO CANDIDATES

Use black ink, black ball-point pen, or your usual method.

Write your name, centre number and candidate number in the spaces at the top of the previous page.

Answer BOTH questions in Section A.

Answer ONE question in Section B.

Write your answers in the spaces provided in this booklet. Additional space is provided for some questions within the booklet (if required).

(Turn over)

If further space is required for any question, you should use the additional page(s) at the end of this booklet. The question number(s) should be clearly shown.

INFORMATION FOR CANDIDATES

The number of marks is given in brackets at the end of each question or part-question.

Your ability to spell, punctuate and use grammar and specialist terms accurately will be assessed in your answer to Question 2(d).

(Turn over)

SECTION A: CORE THEMES

Answer ALL questions in this section.

CORE THEME 1: LANDSCAPES AND PHYSICAL PROCESSES

1 (a) Study DIAGRAM 1.1 opposite.

- (i) Name ONE store of water shown on the diagram. [1 mark]**

- (ii) Complete the diagram by inserting the TWO correct processes from the list below. [2 marks]**

**condensation throughflow interception
channel flow**

(Turn over)

1 (a)(iii) Explain the relationship between infiltration and overland flow (surface runoff). [4 marks]

(Turn over)

(Turn over)

1 (b) Study OS MAP 1.2 (an upland area of the UK) and CROSS-SECTION 1.3 opposite.

(i) Match each of the following labels to the correct boxes above CROSS-SECTION 1.3. [3 marks]

waterfall

road

river

(ii) Give the height of the land at grid reference 085298 on the OS Map. [1 mark]

_____m

(iii) Give ONE piece of map evidence to show that the river is flowing in a south-easterly direction. [1 mark]

(Turn over)

1 (b)(iv) Explain why waterfalls and gorges sometimes form together.

[6 marks]

You may use annotated diagrams.

(Turn over)

(Turn over)

1 (c) Study PHOTOGRAPH 1.4 opposite.

(i) Identify TWO coastal landforms in the photograph. [2 marks]

Landform 1 _____

Landform 2 _____

(Turn over)

1 (c)(ii) Processes such as hydraulic action occur along this coastline.

Describe the process of hydraulic action. [3 marks]

(Turn over)

1 (d) Study GRAPH 1.5 opposite.

- (i) Calculate the range in the number of visits shown in the graph. [2 marks]**

Show your working.

Answer: _____ thousand

(Turn over)

- 1 (d)(ii) Tick (✓) ONE alternative graphical technique that could be used to show this data. [1 mark]

	TICK (✓)
Scatter graph	
Triangular graph	
Line graph	

- (e) Study RESOURCE BOX 1.6 opposite and the IMAGE opposite the following page.

Should visitor numbers be managed in distinctive landscapes such as the Giant's Causeway? Justify your reasons.

[8 marks]

(Turn over)

(Turn over)

(Turn over)

(Turn over)

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(Turn over)

END OF QUESTION 1

(Turn over)

CORE THEME 2: RURAL-URBAN LINKS

2 (a) Study GRAPH 2.1 opposite.

(i) Describe the trend for the number of new shops shown on the graph.

[2 marks]

(Turn over)

2 (a)(ii) Give ONE reason why technology has led to shops closing down.

[2 marks]

(Turn over)

- 2 (a)(iii) Describe TWO ways in which UK high streets have changed in order to attract more shoppers. [4 marks]**

(Turn over)

2 (b) Study MAP 2.2 opposite.

**(i) Name the mapping technique used in
MAP 2.2. [1 mark]**

(Turn over)

2 (b)(ii) Give TWO ways in which this map could be improved. [2 marks]

Way 1 _____

Way 2 _____

(Turn over)

2 (b)(iii) Describe how economic and/or social factors can affect birth rates and death rates in the UK.

[4 marks]

(Turn over)

2 (c) Study GRAPH 2.3 opposite.

(i) Complete the population pyramid using the following data. [1 mark]

Urban	Age Group 0–4	7%
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(Turn over)

2 (c)(ii) Describe the difference in population structure between rural and urban areas for each of the following age groups. [2 marks]

0–39 _____

65–90+ _____

(Turn over)

2 (c)(iii) Give ONE reason why migration within the UK can affect the population structure of some areas. [2 marks]

(Turn over)

2 (c)(iv) Explain why an ageing population has consequences for the UK.

[6 marks]

(Turn over)

(Turn over)

2 (d) Study the information in RESOURCE BOX 2.4 opposite.

‘Strategies for creating sustainable rural communities in the UK are always successful.’

How far do you agree with this statement? [8 marks]

You may refer to examples you have studied.

Your ability to spell, punctuate and use grammar and specialist terminology accurately will be assessed in your answer to this question. [4 marks]

(Turn over)

(Turn over)

(Turn over)

(Turn over)

Additional space for Question 2(d) only:

(Turn over)

END OF QUESTION 2

(Turn over)

SECTION B: OPTIONS

**Answer ONE question in this section.
Choose EITHER Question 3 (Theme 3) OR
Question 4 (Theme 4).**

**THEME 3: TECTONIC LANDSCAPES AND
HAZARDS**

3 (a) Study MAP 3.1 opposite.

(Turn over)

- 3 (a)(i) Calculate the distance between Santa Cruz de Tenerife and Arrecife (Lanzarote). [2 marks]
Show your working.**

Answer _____ kilometres

(Turn over)

3 (a)(ii) Mount Teide is a stratovolcano located in the centre of Tenerife.

**Give TWO features of a stratovolcano.
[2 marks]**

Feature 1 _____

Feature 2 _____

(Turn over)

3 (b) Explain why earthquakes can have a major impact on people's health.

[4 marks]

(Turn over)

3 (c) Study the information in RESOURCE BOX 3.2 opposite.

Two ways of reducing the risks associated with earthquakes are:

- 1. New building technology**
- 2. Improved emergency planning**

Which is the best option? Justify your choice. [8 marks]

You may refer to examples you have studied.

(Turn over)

(Turn over)

(Turn over)

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(Turn over)

Additional space for Question 3(c) only:

(Turn over)

END OF QUESTION 3

(Turn over)

**THEME 4: COASTAL HAZARDS AND THEIR
MANAGEMENT**

**If you have answered Question 3, DO NOT
answer Question 4.**

4 (a) Study MAP 4.1 opposite.

(Turn over)

- 4 (a)(i) Calculate the distance between Santa Cruz de Tenerife and Arrecife (Lanzarote). [2 marks]**

Show your working.

Answer _____ kilometres

(Turn over)

4 (a)(ii) Sea levels are expected to rise in the near future as a result of climate change.

Give TWO challenges that some small islands will face as a result of this expected sea level rise.

[2 marks]

Challenge 1 _____

Challenge 2 _____

(Turn over)

4 (b) Explain why human factors can increase vulnerability to coastal flooding in some parts of the world. [4 marks]

(Turn over)

(Turn over)

4 (c) Study RESOURCE BOX 4.2 opposite.

Two ways of reducing the risks associated with coastal flooding are:

1 'Hold the line'

2 'Managed retreat/realignment'

Which is the best option? Justify your choice. [8 marks]

You may refer to examples you have studied.

(Turn over)

(Turn over)

(Turn over)

(Turn over)

Additional space for Question 4(c) only:

END OF QUESTION 4

END OF PAPER

(Turn over)

Question Number	Additional page, if required. Write the question number(s) in the left-hand margin.

(Turn over)

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(Turn over)

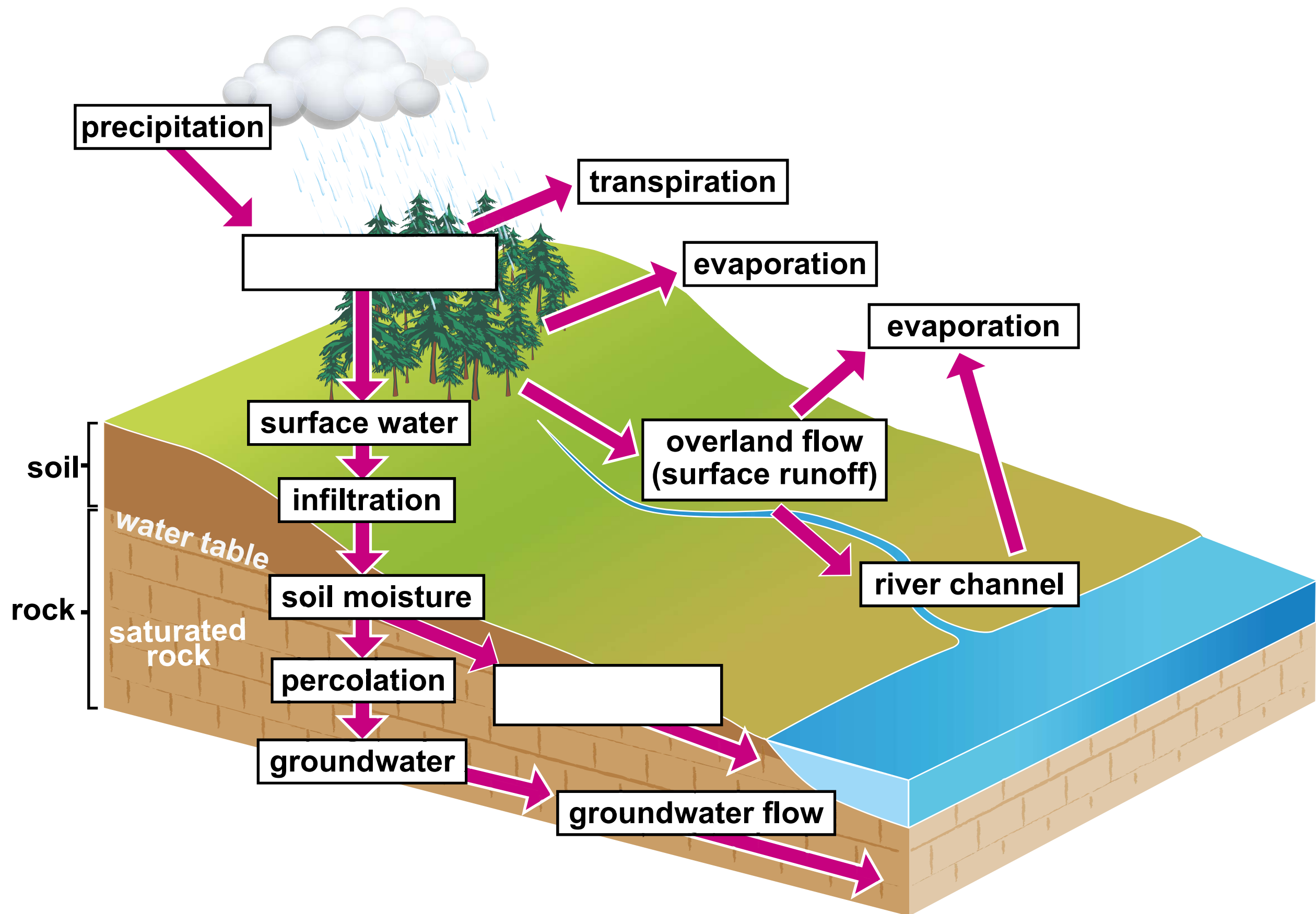
Question Number	Additional page, if required. Write the question number(s) in the left-hand margin.

(Turn over)

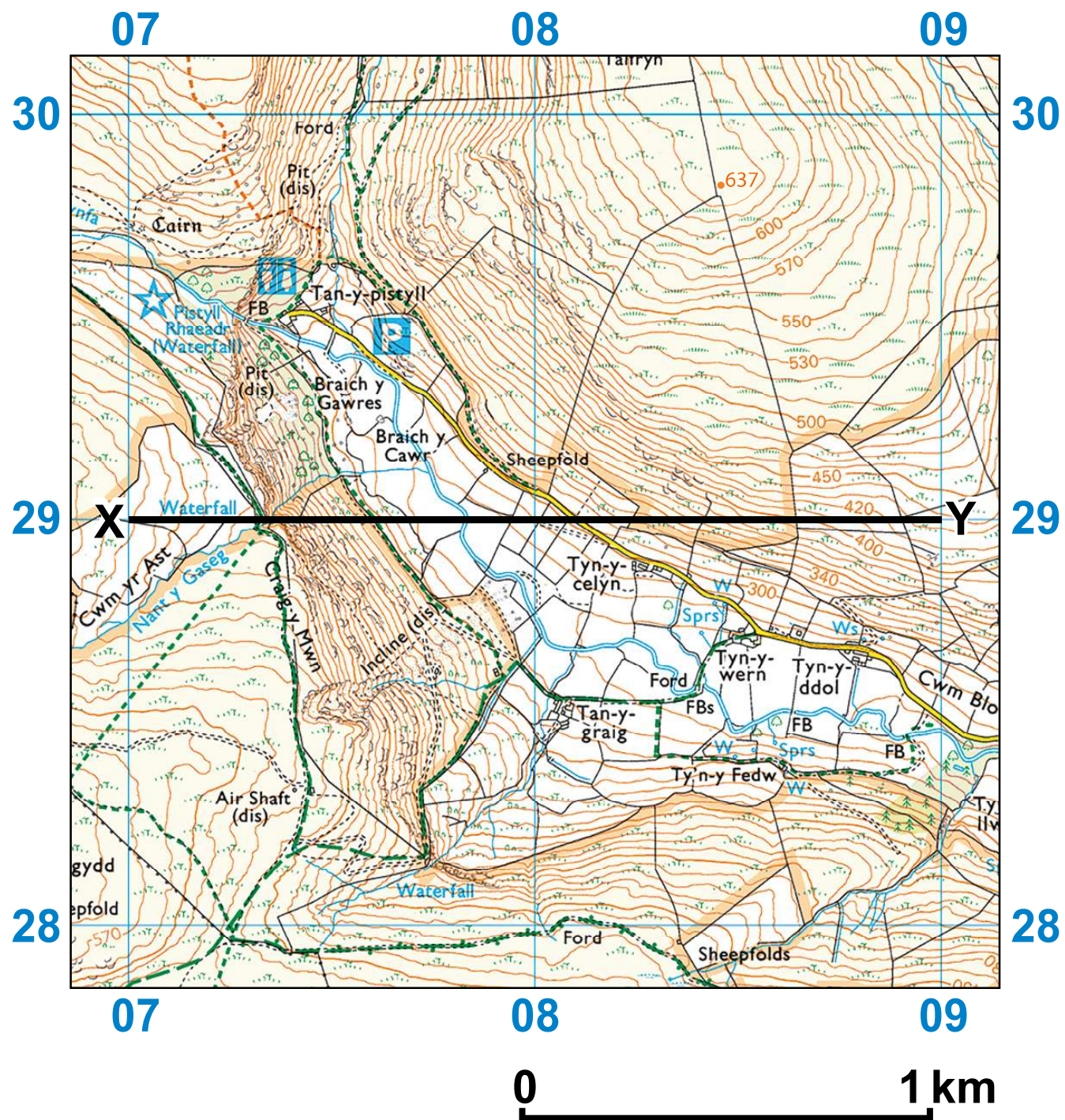
Question Number	Additional page, if required. Write the question number(s) in the left-hand margin.

For Examiner's use only		
Question	Maximum Mark	Mark Awarded
1	34	
2	34	
SPaG	4	
either 3	16	
or 4	16	
Total	88	

DIAGRAM 1.1 - FLOWS AND STORES OF WATER IN UK DRAINAGE BASINS

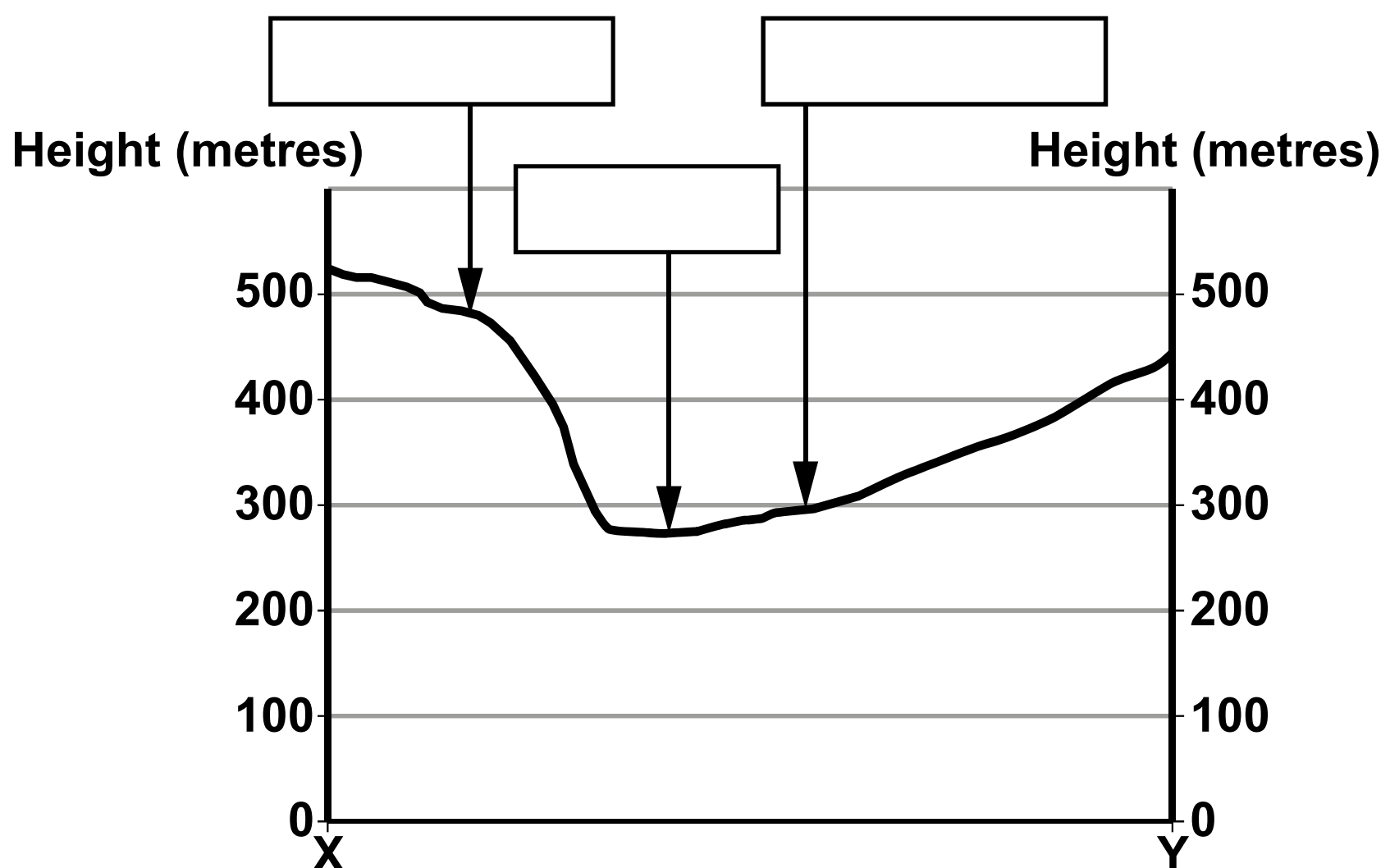


OS MAP 1.2



CROSS-SECTION 1.3

The cross-section has been drawn along grid line 29 from X to Y

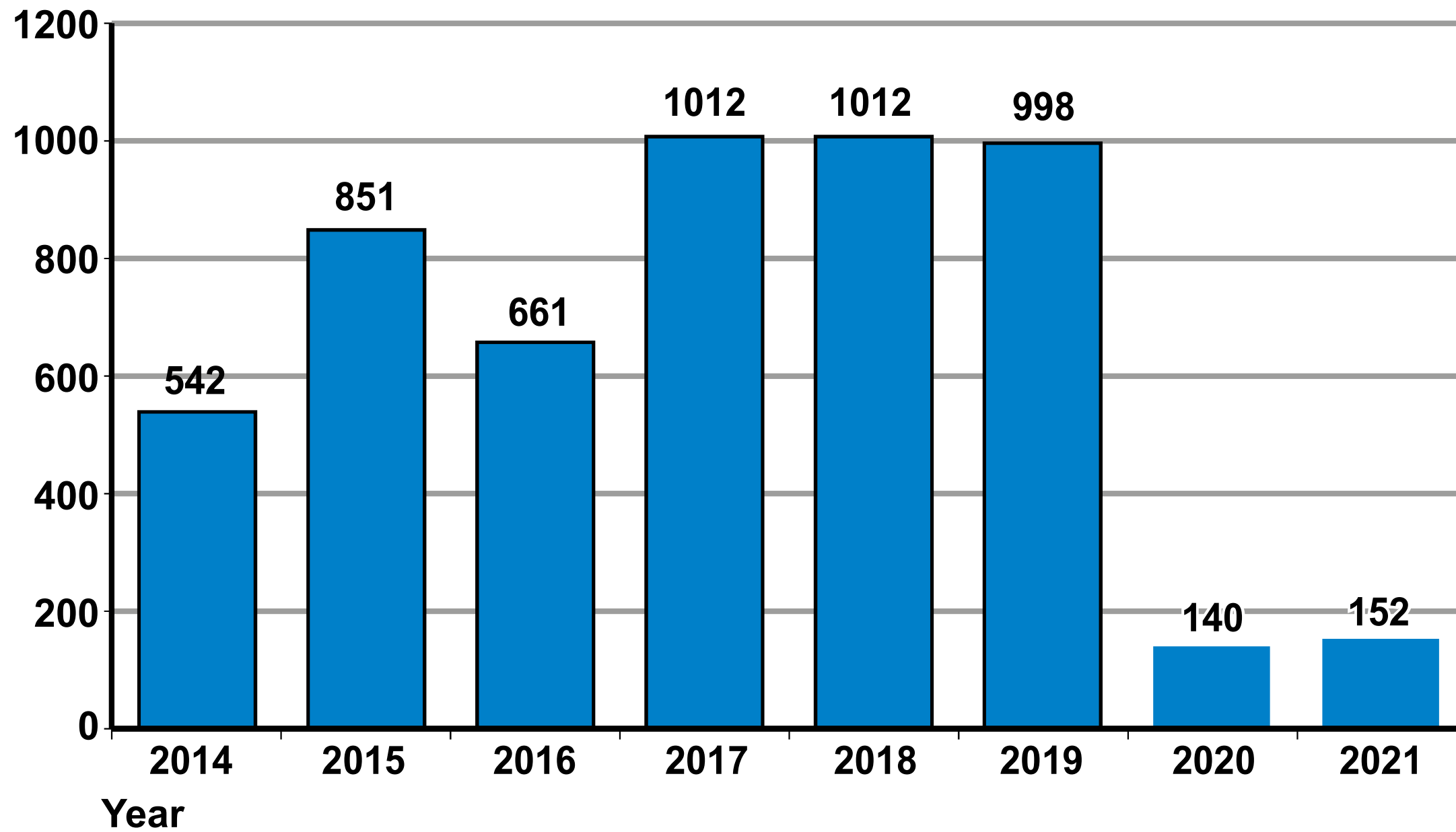


PHOTOGRAPH 1.4 - PART OF THE ANTRIM COAST IN NORTHERN IRELAND



**GRAPH 1.5 - NUMBER OF VISITS TO THE GIANT'S CAUSEWAY ON THE ANTRIM COAST
2014-2021**

**Number of
visits (000s)**



RESOURCE BOX 1.6 - INFORMATION ABOUT THE GIANT’S CAUSEWAY

The Giant’s Causeway is a natural rock formation. It was formed by volcanic activity to create a distinctive landscape.



MAP TO SHOW THE LOCATION OF THE GIANT’S CAUSEWAY



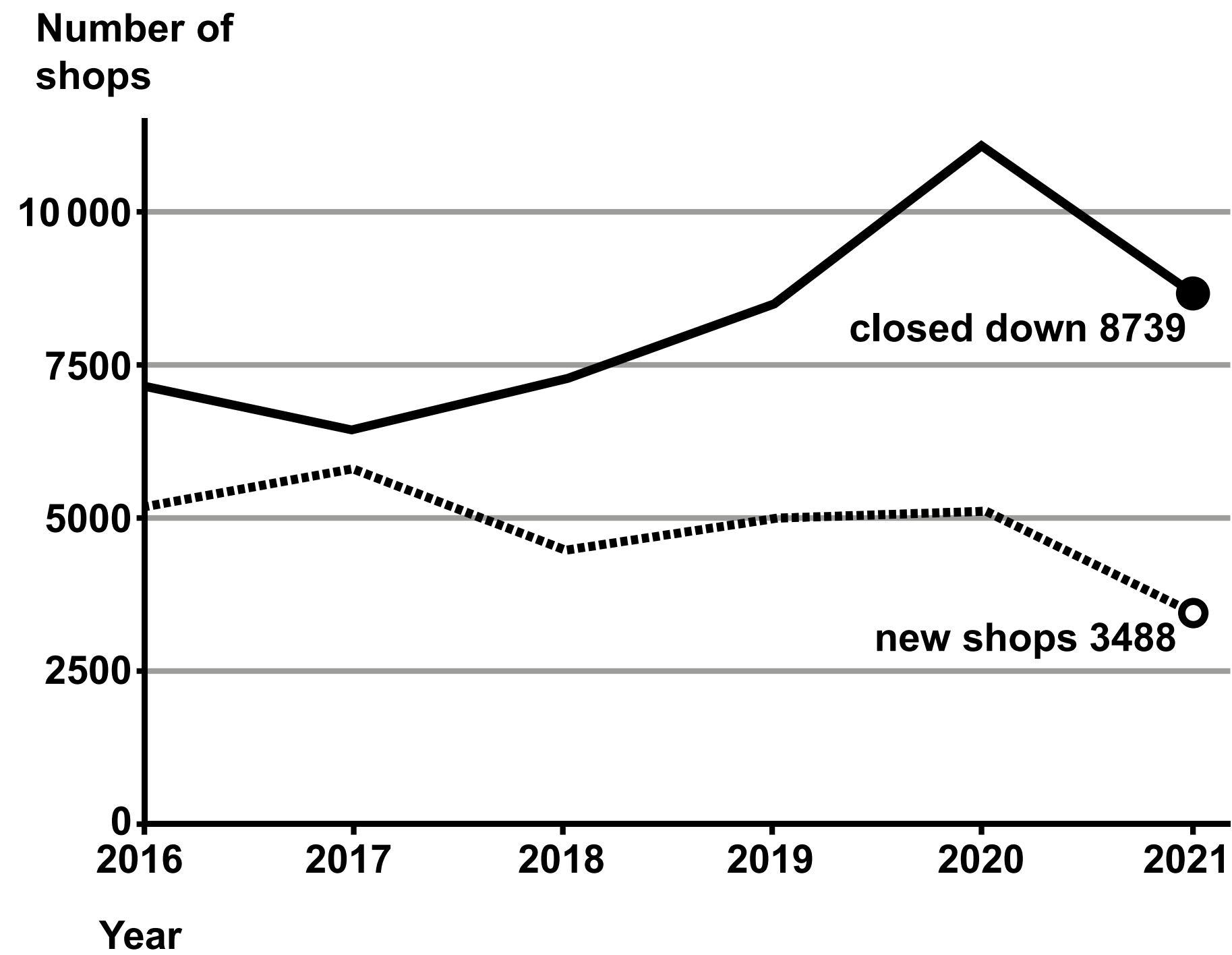
- **The Giant's Causeway is a World Heritage Site. It is also a designated coast of Outstanding Natural Beauty.**
- **It is the most popular tourist attraction in Northern Ireland.**
- **There is a public footpath through the site and visitors are allowed to walk along the rocks.**

SUMMER VISITORS TO THE GIANT'S CAUSEWAY

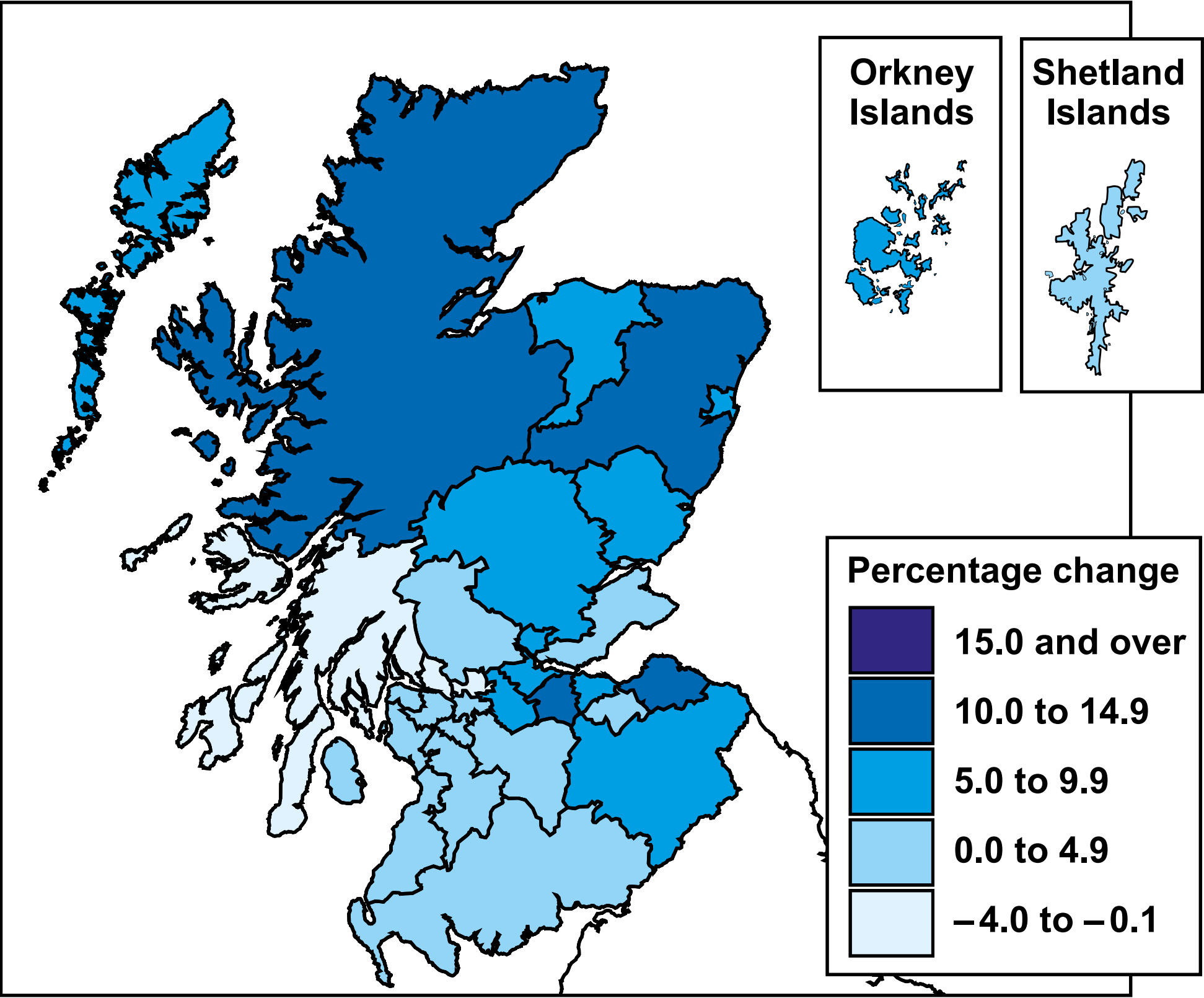


- **The National Trust (a conservation charity) looks after the area, which includes a visitor centre and four walking trails.**
- **The visitor centre charges a fee for non-members. It uses the money raised to maintain the site.**
- **It is possible to get to the site without going through the visitor centre.**
- **The National Trust is studying the impact of tourism on the Antrim Coast.**

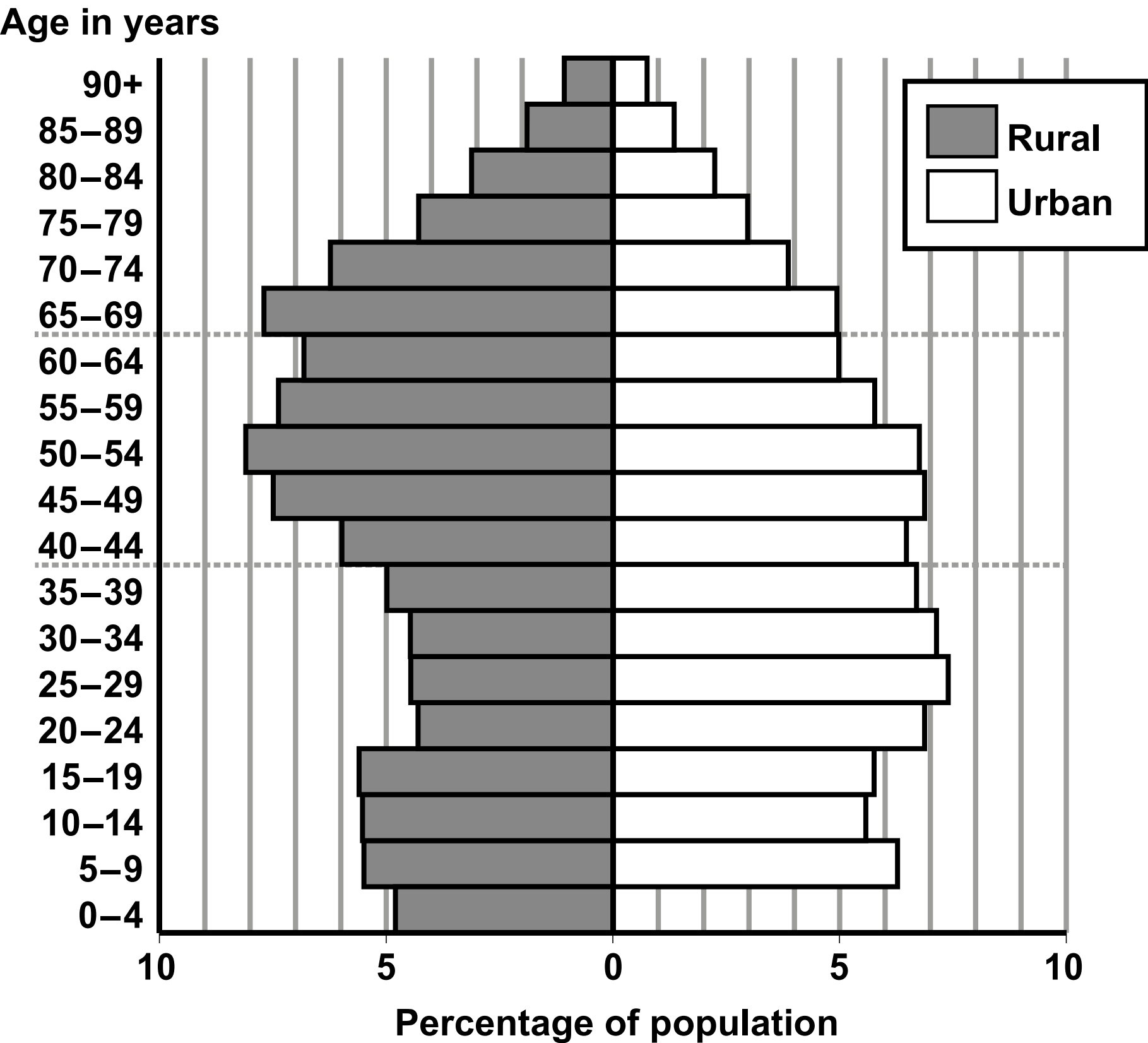
**GRAPH 2.1 - NUMBER OF NEW SHOPS AND SHOPS THAT CLOSED DOWN IN THE UK
2016-2021**



MAP 2.2 - POPULATION CHANGE IN SCOTLAND



GRAPH 2.3 - POPULATION PYRAMID FOR ENGLAND 2016



RESOURCE BOX 2.4 - SOME STRATEGIES TO CREATE SUSTAINABLE RURAL COMMUNITIES IN THE UK

A screenshot from a UK Government website - August 2021



Source: www.gov.uk

A MOBILE BANK ON A WEEKLY VISIT TO A RURAL AREA IN DEVON



WOODEN LODGES AT A HOLIDAY PARK IN RURAL WALES



COMMUNITY BUS USED FOR TAKING PASSENGERS TO AND FROM A SUPERMARKET IN RURAL SUFFOLK



MAP 3.1 - THE CANARY ISLANDS



RESOURCE BOX 3.2 - TWO WAYS OF REDUCING THE RISKS ASSOCIATED WITH EARTHQUAKES IN JAPAN

AN EXAMPLE OF NEW BUILDING TECHNOLOGY



Workers install ball bearing slides to earthquake-proof a house

AN EXAMPLE OF IMPROVED EMERGENCY PLANNING



Earthquake drill in Tokyo using an overturned bus

MAP 4.1 - THE CANARY ISLANDS



RESOURCE BOX 4.2 - TWO WAYS OF REDUCING THE RISK OF COASTAL FLOODING IN THE UK

AN EXAMPLE OF 'HOLD THE LINE'



Flood protection work along the seafront at Blackpool

AN EXAMPLE OF 'MANAGED RETREAT/REALIGNMENT'



A new wetland wildlife reserve in Bridgewater Bay, Somerset, created by a managed retreat scheme.