

Surname	Centre Number	Candidate Number
Other Names		0



GCSE

4232/02

GEOGRAPHY
(Specification A)

HIGHER TIER

UNIT 2: Options Geography

A.M. WEDNESDAY, 12 June 2013

1 hour 15 minutes

		For Examiner's Use Only	
Section A	Theme 7	20	4
	Theme 8	20	4
	Theme 9	20	4
Section B	Theme 10	20	4
	Theme 11	20	4
	Theme 12	20	4
TOTAL		60	12

INSTRUCTIONS TO CANDIDATES

Use black ink or black ball-point pen.

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

Answer **one** question from Section A, **one** from Section B and **one other**.

Answer **no more** than **three** questions.

Write your answers in the spaces provided in this booklet. Where the space is not sufficient for your answer, continue the answer at the back of the book, taking care to number the continuation correctly.

INFORMATION FOR CANDIDATES

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

You are reminded that assessment will take into account the quality of written communication used in your answers that involve extended writing.

In addition, your ability to spell, punctuate and use grammar accurately will be assessed in your answer to the last sub-question of each theme.

SECTION A - PHYSICAL OPTIONS

Answer at least one question from this section, but no more than two.

Theme 7 – Our Changing Coastline

1. (a) Look at the information in the table below.

Wind speed (knots)	Wave height (metres)
30	2.1
40	4.0
50	5.6

- (i) Use the information to describe the relationship between wind speed and wave height.

[2]

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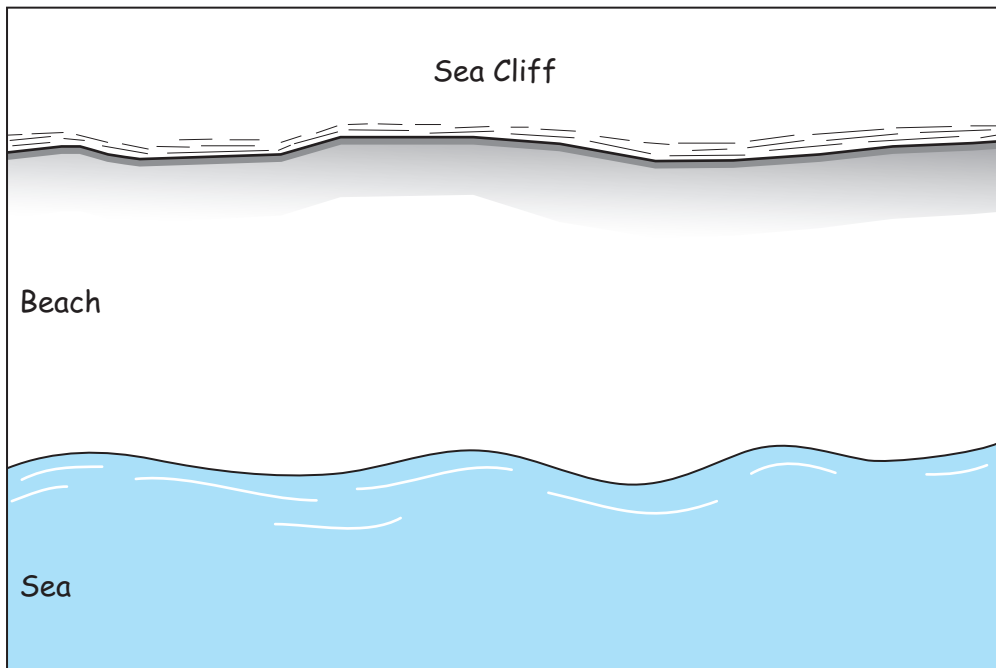
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- (ii) Annotate the diagram below to explain how waves transport material **along** a beach.

Examiner only

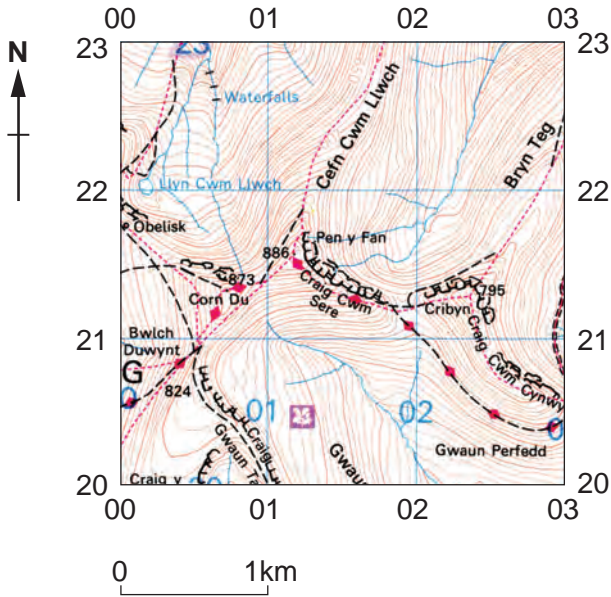
[4]



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Theme 8 – Weather and Climate

2. (a) Study the map and photograph below of Pen y Fan, the highest mountain in the Brecon Beacons (a full key is given on page 28).



- (i) Describe the relief of the area shown by the map.

[2]

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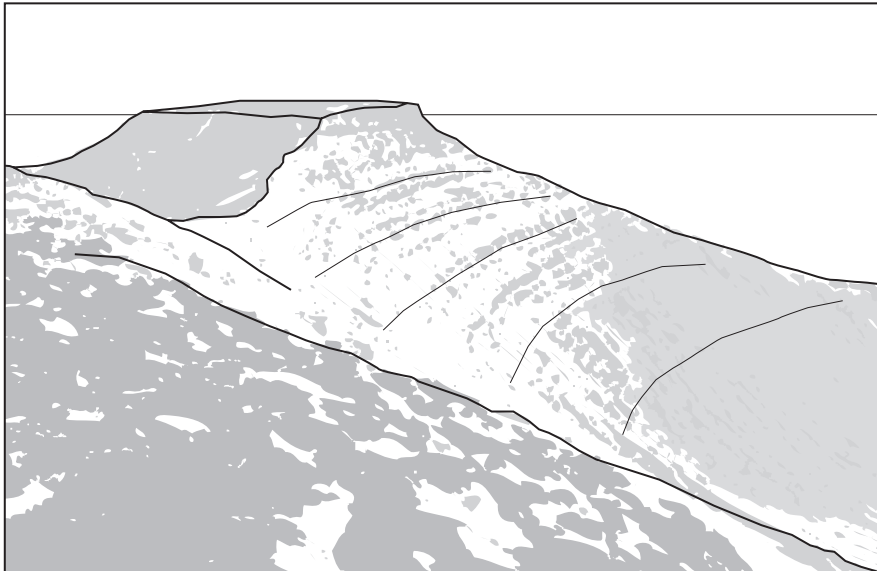
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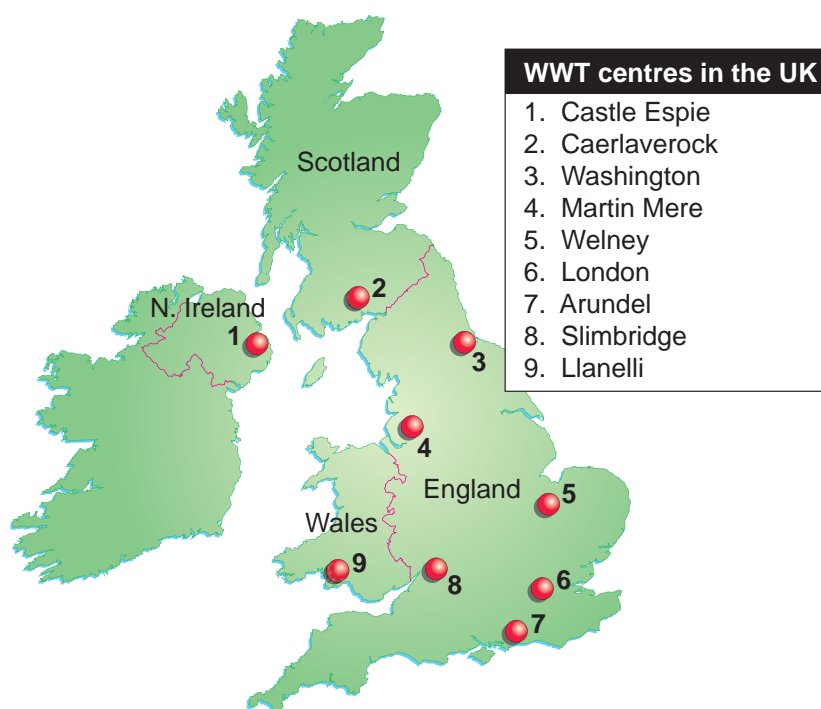
- (ii) The photograph shows the summit at 11am one morning in December.

Annotate the sketch below to explain why one side of the mountain is covered in frost. [4]



Theme 9 – Living Things

3. (a) The Wildfowl and Wetland Trust (WWT) conserves wetland ecosystems in the UK. Study the information about Wildfowl and Wetland Trust centres in the UK.



- (i) Describe the distribution of Wildfowl and Wetland Trust centres in the UK. [2]

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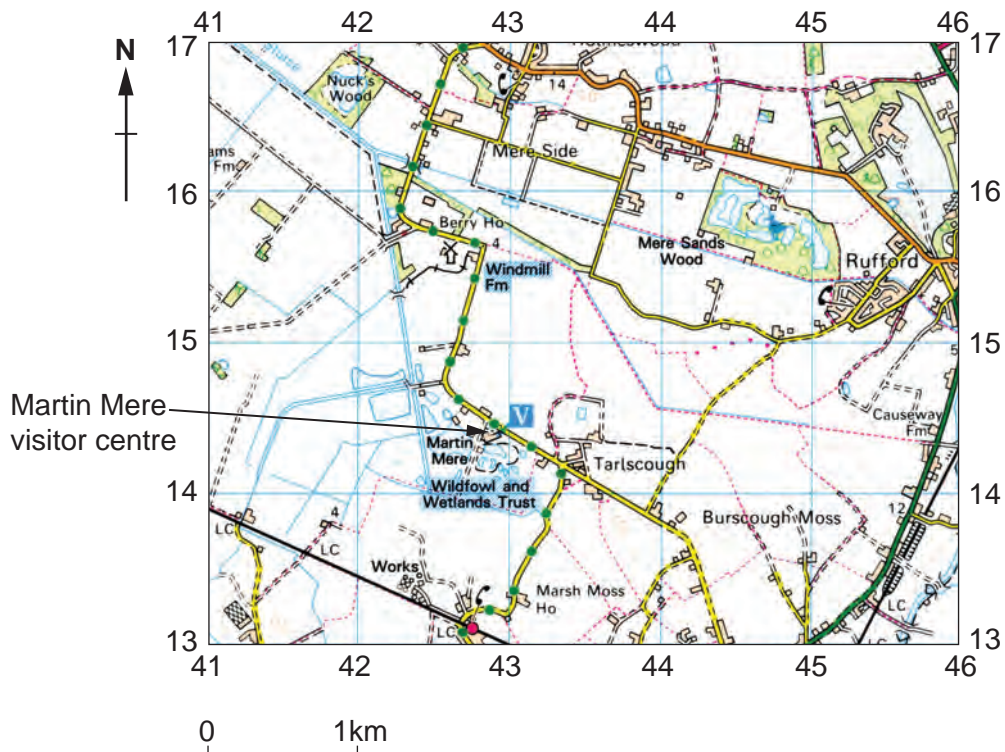
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- (ii) Martin Mere is one of the Wildfowl and Wetland Trust centres in the UK.

Annotate the OS map below to explain why this location has become a Wildfowl and Wetland Trust centre (a full key is given on page 28). [4]



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SECTION B - HUMAN OPTIONS

Answer at least one question from this section, but no more than two.

Theme 10 – Tourism

4. (a) Study the information below. It refers to a popular tourist destination called the Forest of Dean which is located on the border between Wales and England.

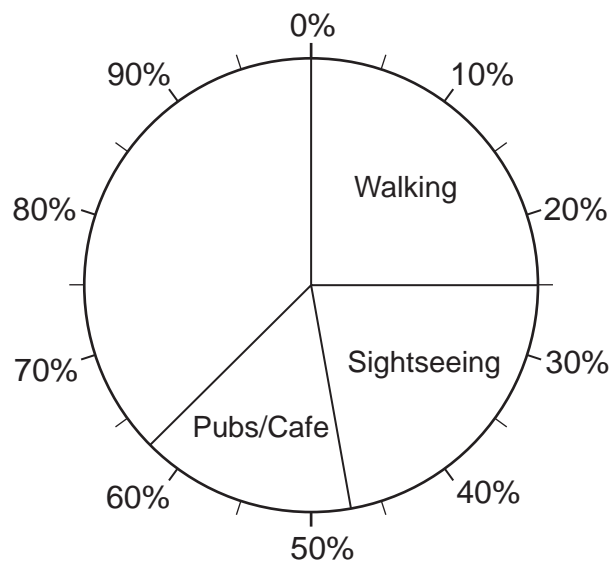


Table of most popular visitor activities in the Forest of Dean

Type of activity	% of people doing the activity
Walking	25
Sightseeing/Visitor attractions	22
Pub/Café/Restaurant	16
Picnic	15
Observe wildlife	8
Cycling	10
Canoeing and Caving	4

- (i) Complete the pie chart to show the most popular tourist activities.

[2]

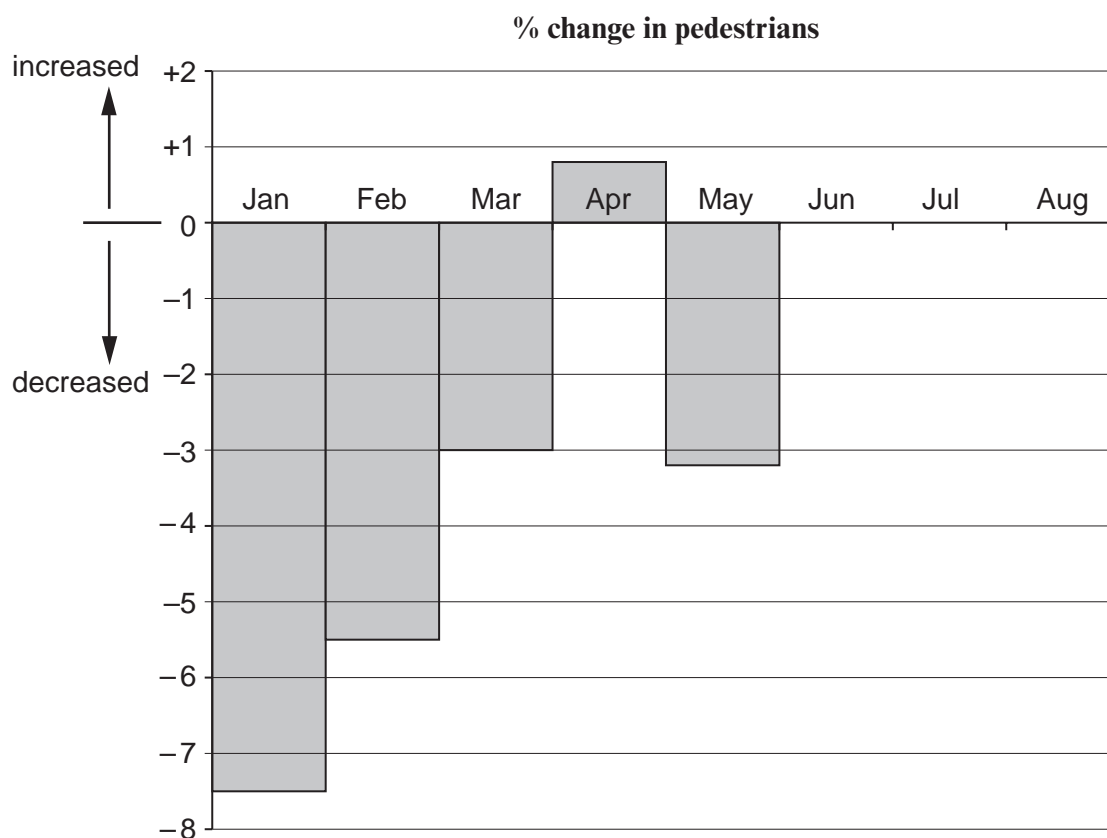


Theme 11 – Retail and Urban Change

5. (a) Look at the information below. It shows how the number of pedestrians has changed in the CBD area of UK cities between 2009 and 2011 in different months of the year.

Month of the Year	Change in number of pedestrians using CBD area of UK cities
January	-7.5%
February	-5.5%
March	-3.0%
April	+0.8%
May	-3.2%
June	+0.4%
July	-1.9%
August	-3.9%

- (i) Complete the graph below to show the % change in pedestrians within the CBD of UK cities. [2]



- (ii) Many people now prefer to visit out-of-town shopping centres. Use evidence from the photograph below to explain **two** factors why people prefer these locations to city centres. [4]



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(b) Study the photograph below.



Describe how changes in customer choice are having an impact on the global environment. [6]

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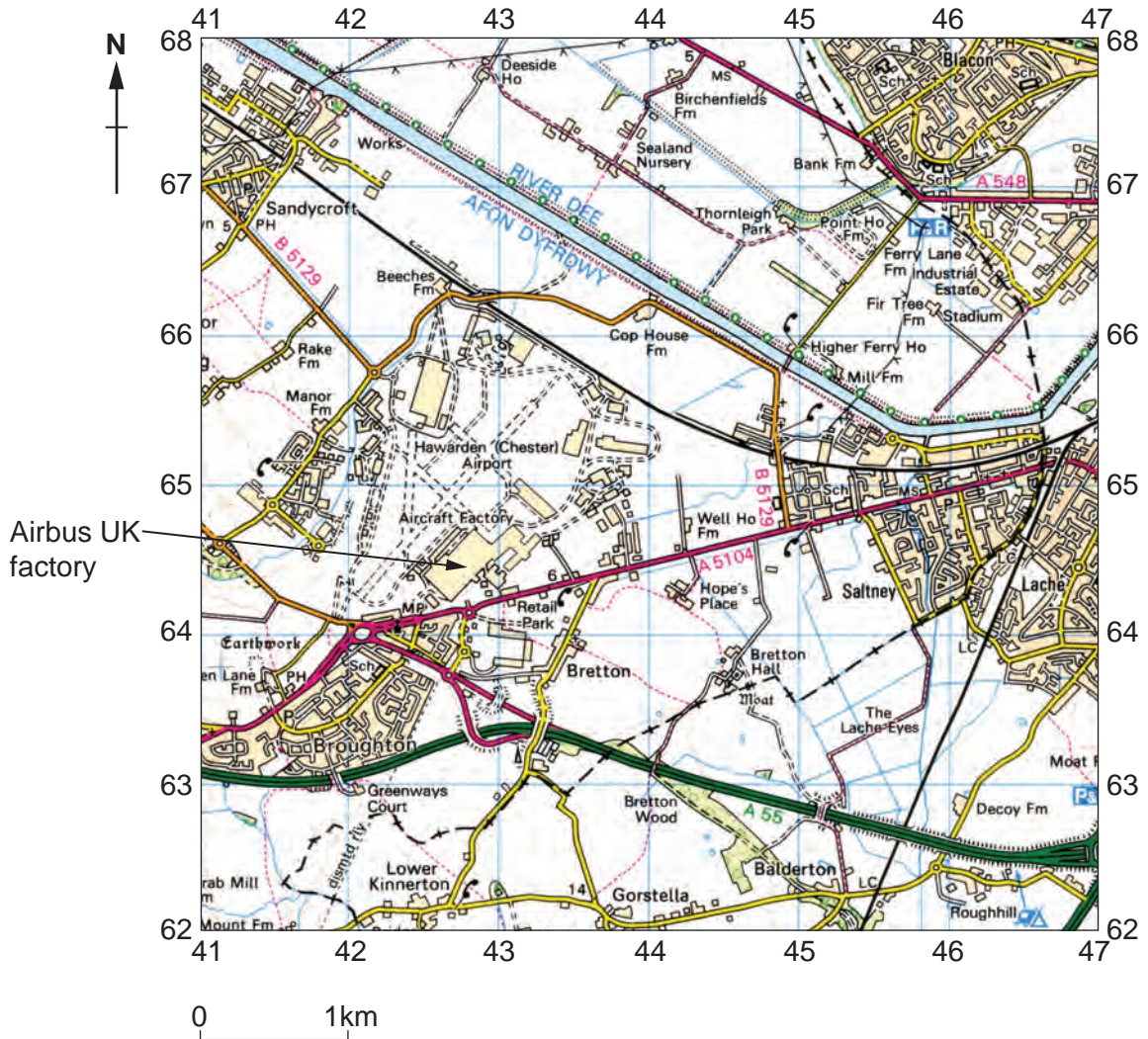
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Theme 12 – Economic Change and Wales

- 6. (a) Study the information below about the Airbus UK factory in Broughton, North Wales (a full key is given on page 28).



- (i) Use map evidence to describe the location of the Airbus UK factory. [2]

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- (ii) Using map evidence only, explain **two** factors that show this is a good location for the Airbus UK factory. [4]

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- (b) Study the information below. The table shows the percentage of workers employed in different industries in Wales in 2011. Figures are provided for two regions and for Wales as a whole.

Region	Public sector (eg. health and education)	Agriculture, forestry and fishing	Manufacturing	Construction	Retail and tourism	Finance and banking	TOTAL
Mid Wales	32	13	10	11	24	10	100
South East Wales	36	2	12	8	24	18	100
All Wales	34	8	10	8	25	15	100

Use this information **and your own knowledge** to explain why the percentage of workers employed in different industries is not spread evenly across Wales. [6]

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Acknowledgements

Section A

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Section B

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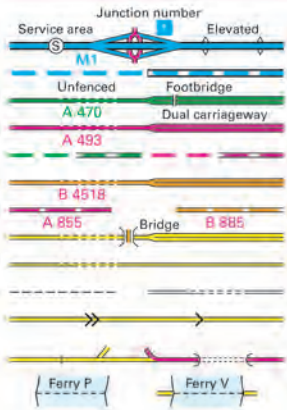
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OS Landranger® (1:50 000 scale) Map symbols

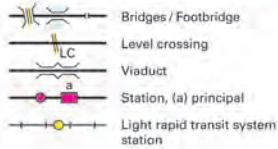
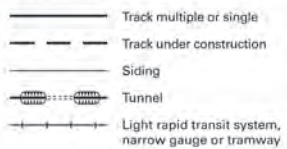
ROADS AND PATHS



Not necessarily rights of way

- Motorway (dual carriageway)
- Motorway under construction
- Primary Route
- Main road
- Primary Route / Main road under construction
- Secondary road
- Narrow road with passing places
- Road generally more than 4m wide
- Road generally less than 4m wide
- Path / Other road, drive or track
- Gradient: 20% (1 in 5) and steeper, 14% (1 in 7) to 20% (1 in 5)
- Gates / Road Tunnel
- Ferry (passenger) / Ferry (vehicle)

RAILWAYS



PUBLIC RIGHTS OF WAY



The symbols show the defined route so far as the scale of mapping will allow. Rights of way are not shown on maps of Scotland.

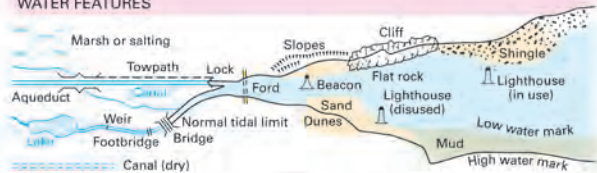
The representation on this map of any other road, track or path is no evidence of the existence of a right of way

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

OTHER PUBLIC ACCESS

- Other route with public access (not normally shown in urban areas). Alignments are based on the best information available. These routes are not shown on maps of Scotland.
- National Trail, European Long Distance Route, Long Distance Route, selected Recreational Routes
- National/Regional Cycle Network
- Surfaced cycle route
- National/Regional Cycle Network number

WATER FEATURES



HEIGHTS

1 metre = 3.2808 feet



Contours are at 10 metres vertical interval
Heights are to the nearest metre above mean sea level
Heights shown close to a triangulation pillar refer to the ground at the base of the pillar and not necessarily to the summit.

ROCK FEATURES



LAND FEATURES

- Electricity transmission line (pylons shown at standard spacing)
- Pipe line (arrow indicates direction of flow)
- Buildings
- Public building (selected)
- Bus or coach station
- Place of worship { with tower, with spire, minaret or dome, without such additions
- Chimney or tower
- Glass structure
- Helipoint
- Triangulation pillar
- Mast
- Wind pump / wind generator
- Windmill with or without sails
- Graticule intersection at 5' intervals

- Cutting / embankment
- Quarry
- Spoil heap, refuse tip or dump
- Coniferous wood
- Non-coniferous wood
- Mixed wood
- Orchard / Park or ornamental ground
- Forestry Commission access land
- National Trust-always open
- National Trust-limited access, observe local signs
- National Trust for Scotland

BOUNDARIES

- National
- District
- County, Unitary Authority, Metropolitan District or London Borough
- National Park

ANTIQUITIES

- Site of monument
- Stone monument
- Battlefield (with date)
- Visible earthwork
- VILLA Roman
- Non-Roman

TOURIST INFORMATION

- Camp site
- Caravan site
- Garden
- Golf course or links
- Information centre, all year / seasonal
- Nature reserve
- Parking, Park and ride, all year / seasonal
- Picnic site
- Selected places of tourist interest
- Telephone, public / motoring organisation
- Viewpoint
- Visitor centre
- Walks / Trails
- Youth hostel

ABBREVIATIONS

- CG Coastguard
- CH Clubhouse
- MP Milepost
- MS Milestone
- P Post office
- PC Public convenience (in rural areas)
- PH Public house
- TH Town Hall, Guildhall or equivalent