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Other names

**Pearson**  
**Edexcel GCSE**

Centre Number

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# Geography A

## Unit 1: Geographical Skills and Challenges

**Higher Tier**

Tuesday 24 May 2016 – Afternoon

**Time: 1 hour**

Paper Reference

**5GA1H/01**

**You must have:**

Resource Booklet (enclosed)

Ordnance Survey Map Extract (enclosed)

Total Marks

### Instructions

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Answer **all** questions.
- Answer the questions in the spaces provided  
– *there may be more space than you need.*

### Information

- The total mark for this paper is 54.
- The marks for **each** question are shown in brackets  
– *use this as a guide as to how much time to spend on each question.*
- Questions labelled with an **asterisk** (\*) are ones where the quality of your written communication will be assessed  
– *you should take particular care on these questions with your spelling, punctuation and grammar, as well as the clarity of expression.*
- The marks available for spelling, punctuation and grammar are clearly indicated.

### Advice

- Read each question carefully before you start to answer it.
- Try to answer every question.
- Check your answers if you have time at the end.

Turn over ►

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**PEARSON**

## SECTION A: GEOGRAPHICAL SKILLS

Answer ALL questions in this section.

- 1 (a) Study the Ordnance Survey (OS) map extract and Figure 1a (photograph) and 1b in the Resource Booklet.

(i) Identify the settlement shown within the dotted line (Figure 1a).

(1)

(ii) From the top of Caer Caradoc, what is the compass direction of All Stretton (4695)?

(1)

(iii) What is the distance along the primary route road between points A (464950) and B (452928) shown on Figure 1b?

(1)

..... km

(b) Suggest why the **site** of Little Stretton (4491) may have been chosen for a settlement.

(3)

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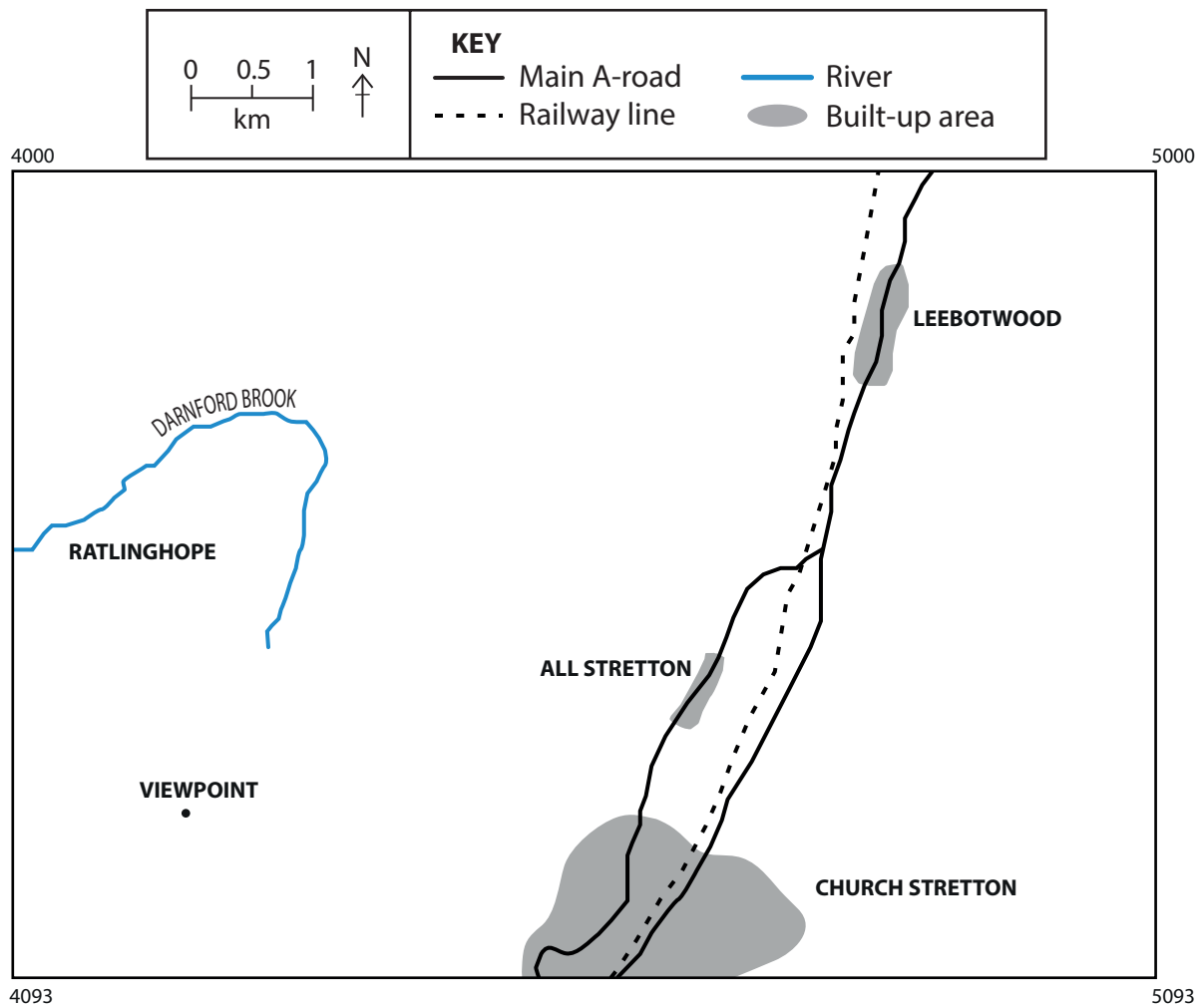


Figure 1c

**A sketch map of the northern half of the OS map extract**

- (c) Using the OS map extract, suggest reasons for the pattern of transport in the area shown on Figure 1c.

(3)

(Total for Question 1 = 9 marks)



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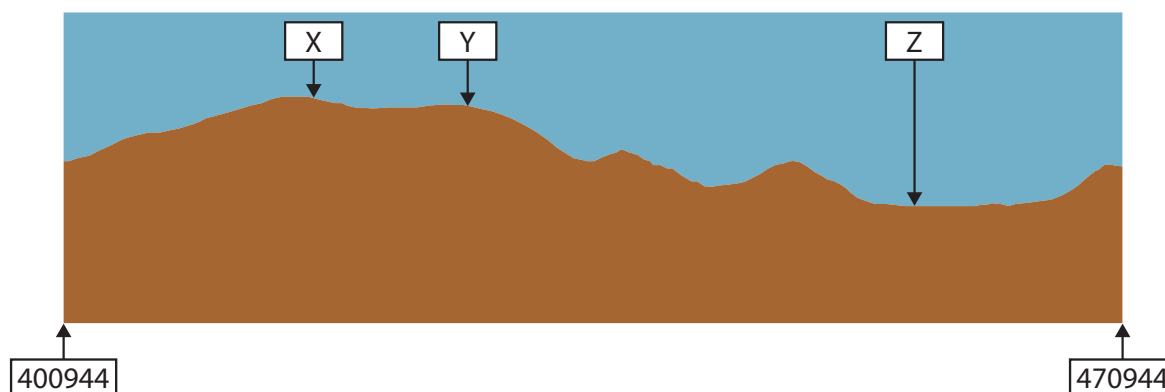
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- 2 (a) Study Figure 2a and the OS map extract.



**Figure 2a**

**A valley cross-section from grid square 400944 to 470944**

- (i) Identify the features found at locations X, Y and Z on Figure 2a.

(3)

Location	Feature
X	
Y	
Z	

- (ii) On Figure 2a, mark on the cross section with **V** the location of Carding Mill Valley.

(1)

- (b) Figure 2b shows river data collected by a group of students visiting Carding Mill Valley.

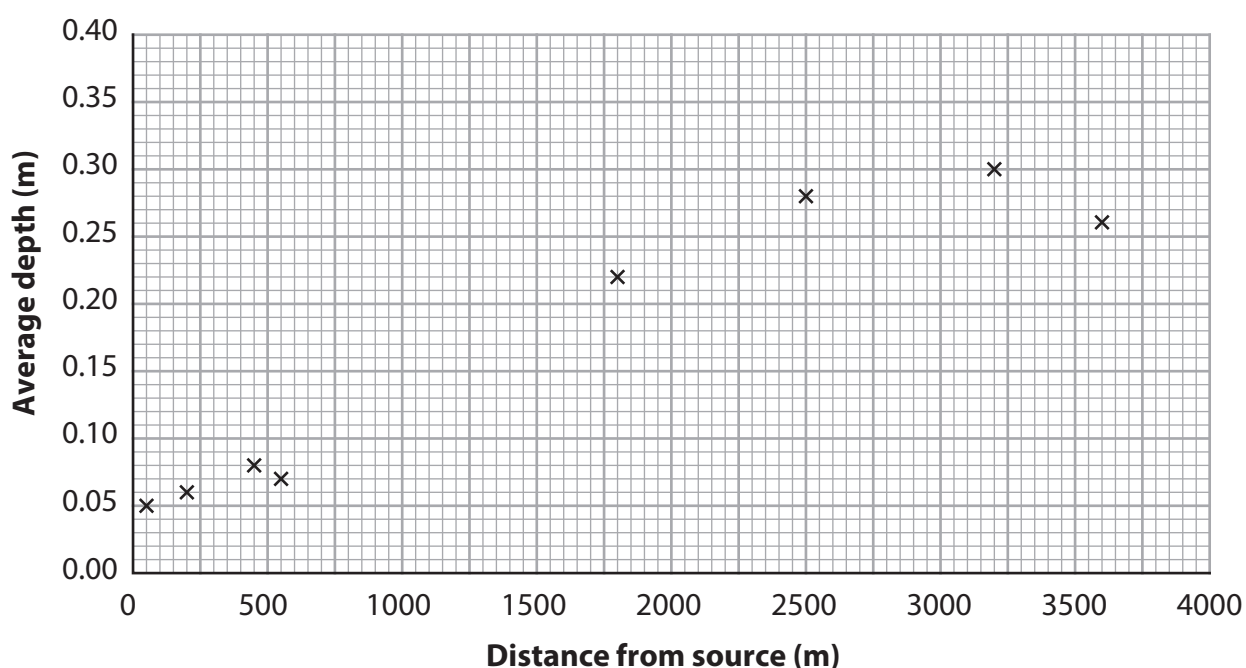
Site	Distance from source (m)	Average depth (m)
1	50	0.05
2	200	0.06
3	450	0.08
4	550	0.07
5	1000	0.15
6	1200	0.20
7	1800	0.22
8	2500	0.28
9	3200	0.30
10	3600	0.26

**Figure 2b**

**River data from Carding Mill Valley**

- (i) Complete the scatter graph (Figure 2c) for sites 5 and 6 using the information in Figure 2b.

(2)



**Figure 2c**

**A scatter graph of river depth and distance from source**



(ii) Describe the relationship between distance from source and average depth.

(3)

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**(Total for Question 2 = 9 marks)**

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**3** (a) Study Figure 3 in the Resource Booklet.

(i) Describe the characteristics of the population pyramid.

Use data in your answer.

(3)

(ii) State **one** limitation of using census data as a part of geographical research.

(1)

(b) Explain how you might use a computer to analyse census and population data.

(3)

**(Total for Question 3 = 7 marks)**

**TOTAL FOR SECTION A = 25 MARKS**





**SECTION B: CHALLENGES FOR THE PLANET****Answer ALL questions in this section.****Spelling, punctuation and grammar will be assessed in 5\*(b).****4** (a) Study Figure 4a in the Resource Booklet.

- (i) Describe the pattern of the predicted impact on crop yields of a 3°C rise in global temperatures.

**(3)**

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- (ii) Explain how the actions of people contribute to climate change.

**(4)**

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(b) Study Figure 4b.

## Volcanic eruptions ‘contributed to global warming pause’, scientists claim



**Figure 4b**

### **A newspaper headline linking volcanic eruptions and climate change**

- (i) Explain why volcanic activity causes climate change on a global scale.

(3)

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(ii) Outline **one** attitude towards climate change.

(2)

(Total for Question 4 = 12 marks)

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**5** (a) Study Figure 5 in the Resource Booklet.

The Bus Rapid Transit system (BRT) has significantly reduced the number of road traffic deaths along the Avenida Caracas in Bogotá since it was introduced in 1999.

Suggest the advantages of sustainable transport schemes such as the BRT for people in urban areas.

(4)

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- \* (b) Tropical rainforests are a rich source of natural resources which many companies wish to extract.

Examine contrasting management approaches in tropical rainforests where resources are being extracted.

Use examples in your answer.

(9)

(Total for spelling, punctuation and grammar = 4 marks)

(Total for Question 5 = 17 marks)

**TOTAL FOR SECTION B = 29 MARKS**

**TOTAL FOR PAPER = 54 MARKS**



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**Pearson Edexcel GCSE**

# **Geography A**

**Unit 1: Geographical Skills and Challenges**

**Paper 1F and 1H**

Tuesday 24 May 2016 – Afternoon

**Resource Booklet**

Paper Reference

**5GA1F/01**

**5GA1H/01**

**Do not return the Resource Booklet with the question paper.**

## **Information**

- This Resource Booklet contains photographs, graphs and diagrams needed for use with the Unit 1 Geographical Skills and Challenges examination. This Resource Booklet is for use with both Foundation and Higher tiers.

*Turn over* ►

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**PEARSON**

## SECTION A – GEOGRAPHICAL SKILLS



**Figure 1a**

**A view from the top of Caer Caradoc (4795)**

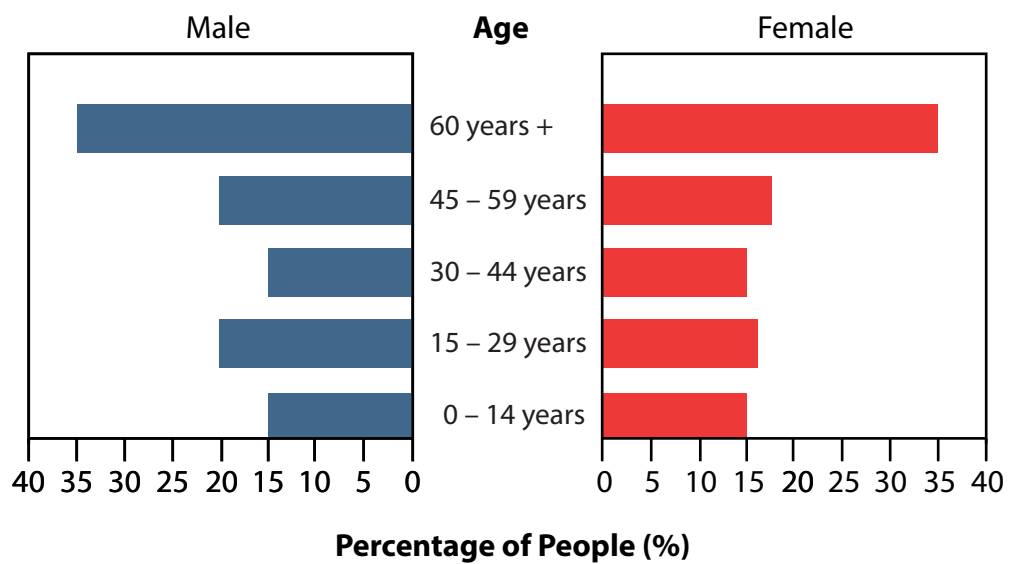


(Source: © 2015 Google terrametrics)

**Figure 1b**

**An aerial view of part of the OS map extract**

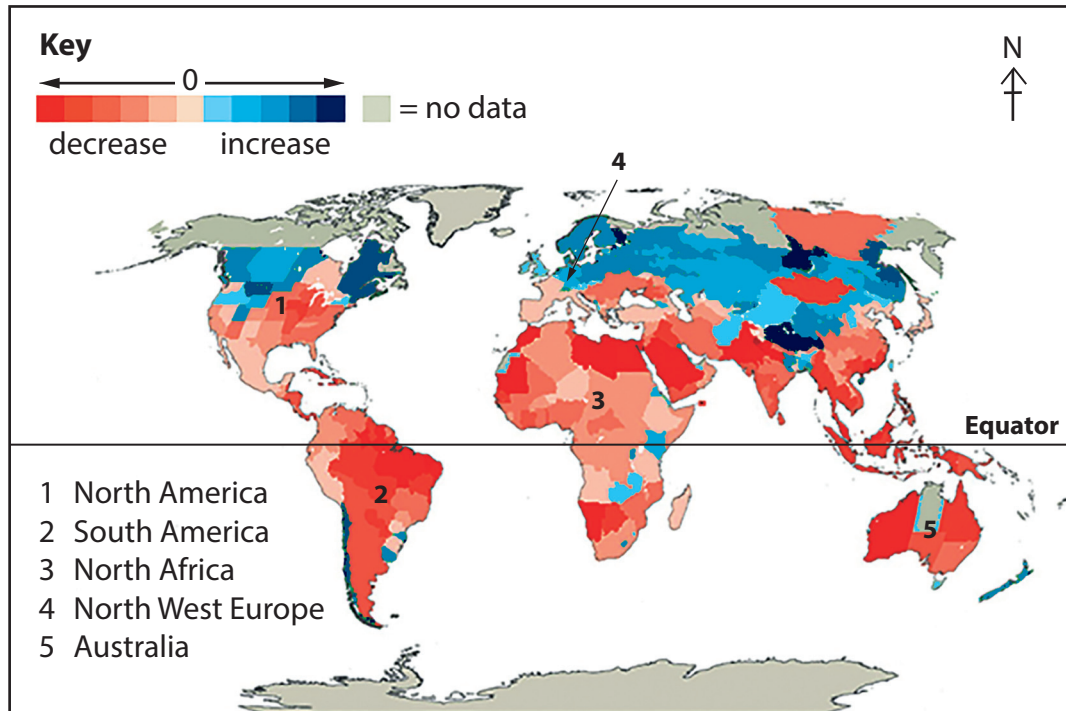




**Figure 3**

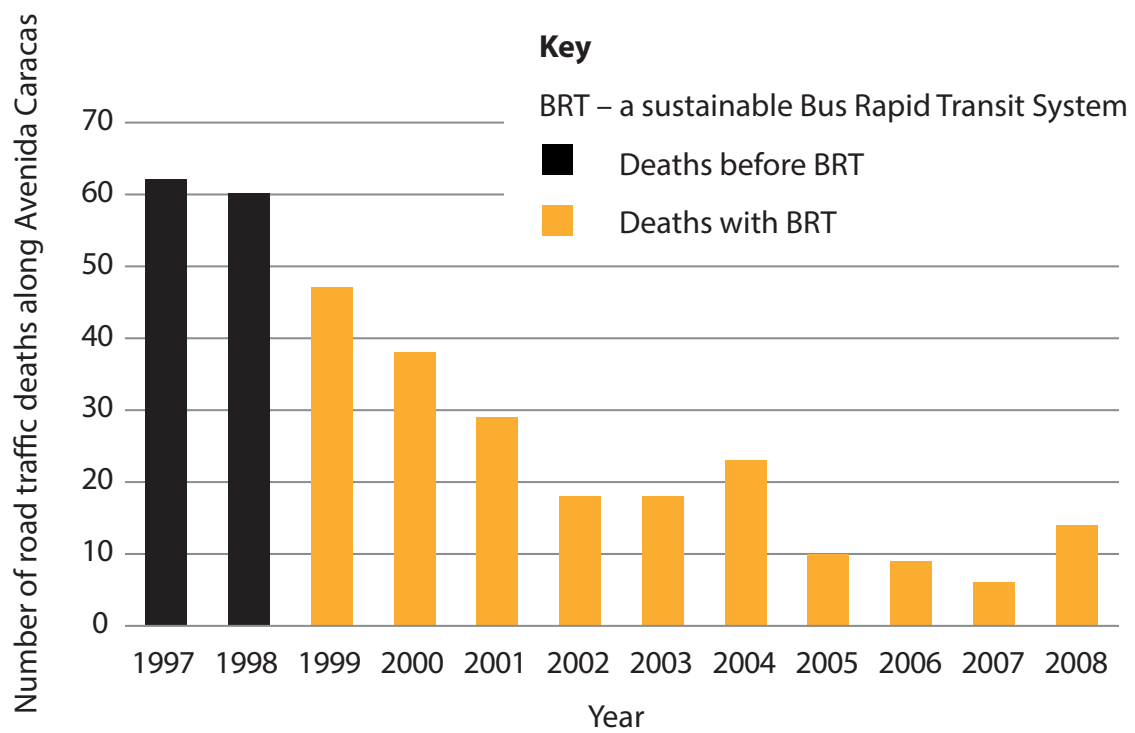
**A population pyramid for the main settlements in south Shropshire, 2011**

## SECTION B – CHALLENGES FOR THE PLANET



**Figure 4a**

**The predicted impact on crop yields of a 3°C rise in global temperatures**



(Source: EMBARQ Analysis, based on data provided by TRANSMILENIO S.A.)

**Figure 5**

**Changes in road traffic deaths along Avenida Caracas – a main road in Bogotá, Colombia, 1997–2008**

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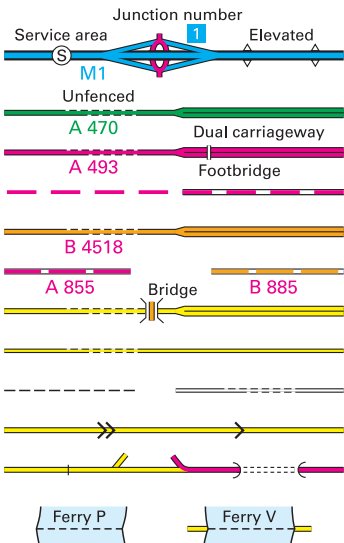
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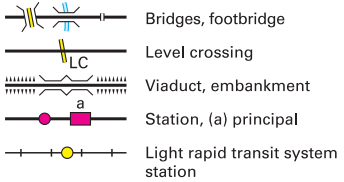
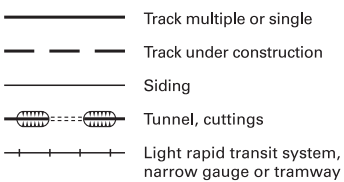
ROADS AND PATHS



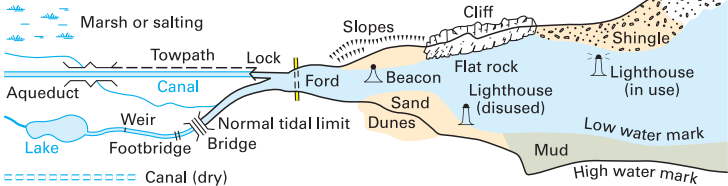
Not necessarily rights of way

- Motorway (dual carriageway)
- Primary Route (recommended through route)
- Main road
- 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: steeper than 20% (1 in 5), 14% to 20% (1 in 7 to 1 in 5)
- Gates, Road tunnel
- Ferry (passenger), Ferry (vehicle)

RAILWAYS



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

Where two heights are shown the first height is to the base of the triangulation pillar and the second (in brackets) to the highest natural point of the hill

PUBLIC RIGHTS OF WAY

- Footpath
- Bridleway
- Restricted byway
- Byway open to all traffic

The symbols show the defined route so far as the scale of mapping will allow.

The representation on this map of any other road, track or path is no evidence of the existence of a right of way. Not shown on maps of Scotland

Danger Area

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

BOUNDARIES

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

ROCK FEATURES



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.
- On-road cycle route
- Traffic-free cycle route
- National Cycle Network number
- Regional Cycle Network number
- National Trail, European Long Distance Path, Long Distance Route, selected Recreational Routes

ANTIQUITIES

- Site of antiquity
- Battlefield (with date)
- Visible earthwork
- 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
- Recreation / leisure / sports centre
- Selected places of tourist interest
- Telephone, public / roadside assistance
- Viewpoint
- Visitor centre
- Walks / Trails
- World Heritage site or area
- Youth hostel

LAND FEATURES

- Electricity transmission line (pylons shown at standard spacing)
- Pipe line (arrow indicates direction of flow)
- Buildings
- Important building (selected)
- Bus or coach station
- Current or former place of worship {with tower, with spire, minaret or dome}
- Place of worship
- Glass structure
- Helipoint
- Triangulation pillar
- Mast
- Wind pump, wind turbine
- Windmill with or without sails
- Graticule intersection at 5' intervals
- Cutting, embankment
- Landfill site or slag/spoil heap
- Coniferous wood
- Non-coniferous wood
- Mixed wood
- Orchard
- Park or ornamental ground
- Forestry Commission land
- National Trust (always open / limited access, observe local signs)
- National Trust for Scotland (always open / limited access, observe local signs)

ABBREVIATIONS

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

