	GCSE			
First name(s))
Surname			Centre Number	Candidate Number





FRIDAY, 16 JUNE 2023 – AFTERNOON

GEOGRAPHY A – Component 3 Applied Fieldwork Enquiry

1 hour 30 minutes

For Exa	aminer's us	e only
	Maximum Mark	Mark Awarded
Part A	18	
Part B	18	
Part C	36	
SPaG	4	
Total Marks	76	

ADDITIONAL MATERIALS

wjec

Resource Folder. You may also require a calculator and a ruler.

INSTRUCTIONS TO CANDIDATES

Use black ink or black ball-point pen. Do not use gel pen or correction fluid.

You may use a pencil for graphs and diagrams only.

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

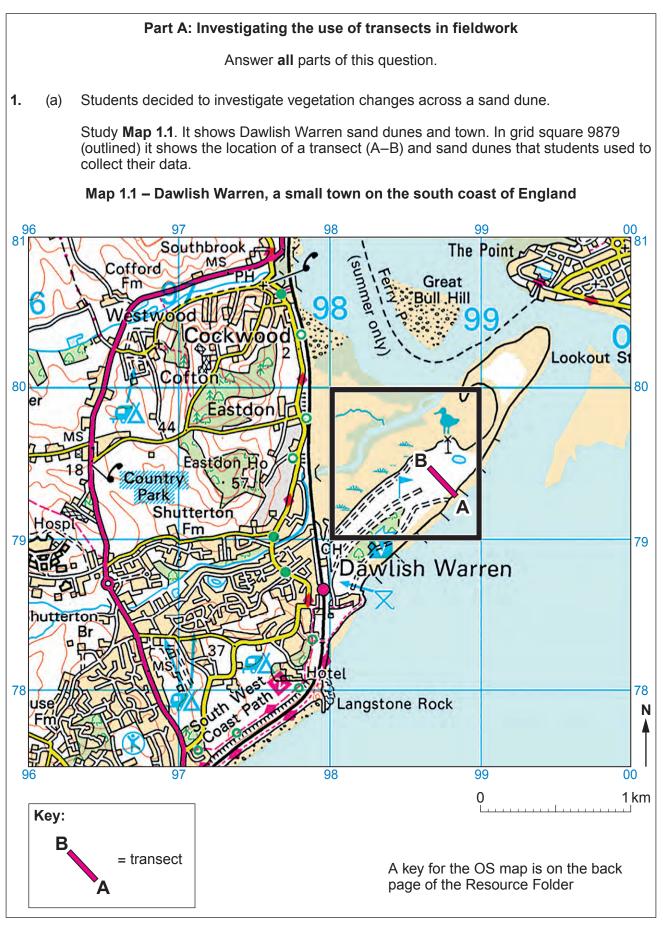
Write your answers in the spaces provided in this booklet. Additional space is provided for some questions within the booklet (if required). If further space is required for any question, you should use the additional page(s) at the end of this booklet. The question number(s) should be clearly shown.

INFORMATION FOR CANDIDATES

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

You are reminded that assessment will take into account your ability to spell, punctuate and use grammar and specialist terms accurately in your answer to Part C, Question 3(f).

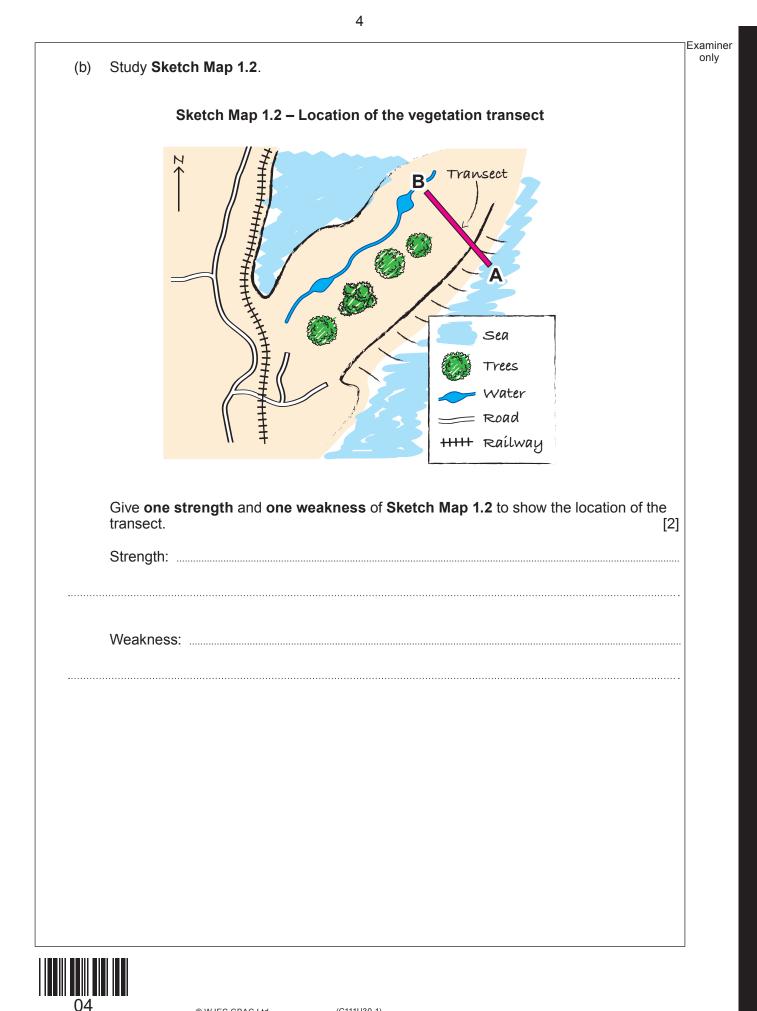




02

Examiner only Tick (\checkmark) the correct length of the transect in grid square 9879. (i) [1] Length of transect (m) Tick (√) one 50 100 250 Tick (\checkmark) the correct direction of the transect in grid square 9879. (ii) [1] **Direction of transect** Tick (√) one North East to South West South East to North West West to East (iii) Give the 6-figure grid reference of the start of the transect at point A. [1] C111U301 03 (iv) Great Bull Hill is found in grid square 9880 on Map 1.1. It is a bank of sand and shingle . Estimate the area of Great Bull Hill. [1] Estimated area Tick (√) one 1.00 km² 0.20 km² 0.40 km²





Examiner only

> C111U301 05

(c) Study **Photograph 1.3**.

Photograph 1.3 – Location of the start (point A) of the transect along Dawlish Warren

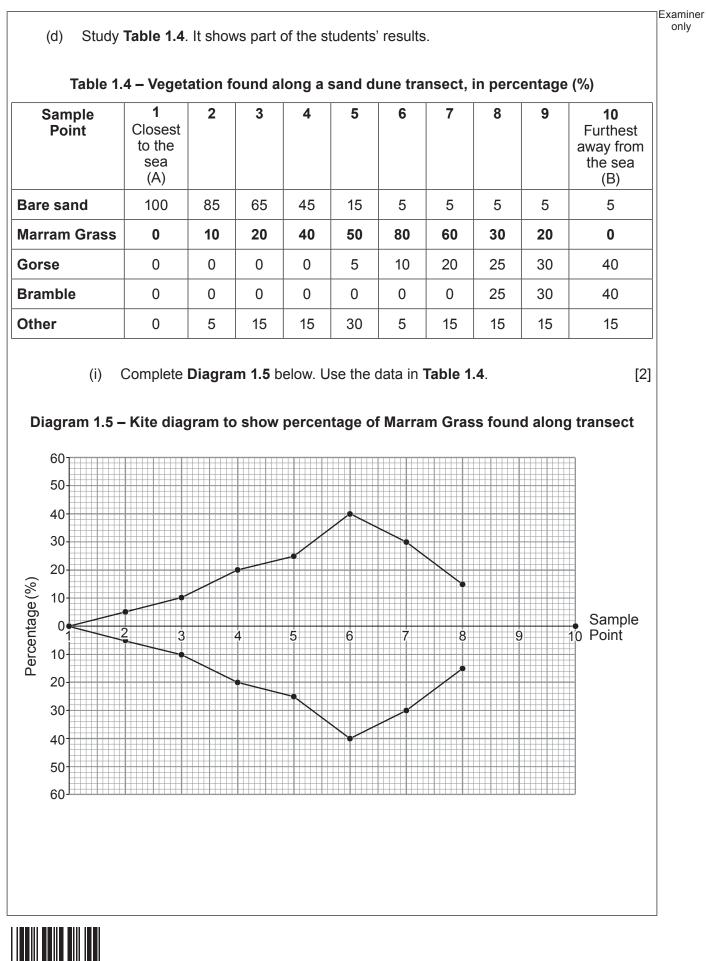


Students used systematic sampling to select where to measure the vegetation along the transect.

State **one advantage** of using systematic sampling to measure vegetation along this transect. [2]



6





06

Examiner only

(ii)	Tick (\checkmark) two correct statements in the table below. Use the information in
	Table 1.4.

Tick (√) two

[2]

The maximum percentage of Marram Grass in a quadrat is 80%.	
Gorse and Bramble are the most common plants in the middle of the transect.	
Bare sand is only found in 6 of the sample points.	
Gorse only grows close to the sea at a maximum of 30%.	
Brambles are only found further away from the sea.	

(e) (i) This question is about your own fieldwork experience of using transects.

I used a transect when investigating

Give one strength and one weakness of using a transect to collect your data. [2]

Strength:

Weakness:



		Ex
(ii)	Strengths of data presentation methods include:	
	1 Clear to interpret	
	 Clear to interpret Location is shown 	
	3. Relevant data is displayed.	
	Explain why a presentation method for your transect data showed some of these strengths. [4]	
•••••		
•••••		
•••••		
•••••		
Addi	tional space for Question 1(e)(ii) only:	
Addi	tional space for Question 1 (e)(ii) only:	
Addi	tional space for Question 1 (e)(ii) only:	
Addi	tional space for Question 1 (e)(ii) only:	
Addi	tional space for Question 1 (e)(ii) only:	
Addi	tional space for Question 1 (e)(ii) only:	
Addi	tional space for Question 1 (e)(ii) only:	
Addi	tional space for Question 1 (e)(ii) only:	
Addi	tional space for Question 1(e)(ii) only:	
Addi	tional space for Question 1(e)(ii) only:	
Addi		



9 Examiner Part B: Investigating Inequality Answer **all** parts of this question. A group of students decided to investigate inequality in the city of York, North Yorkshire, England. Study **Photograph 2.1**. (a) Photograph 2.1 – City of York, North Yorkshire, England

Tick (J) three enquiry questions that could be chosen in an investigation of inequality in York. [3]

Enquiry Question	Tick (√) three
How does the microclimate vary within York city?	
To what extent do tourist visits influence the provision of car parking spaces in York?	
How does access to services vary between different suburbs of York?	
How does the standard of living compare between central York and the suburbs?	
How effective are the river defences in York in protecting the cathedral?	
To what extent do York's historic buildings influence its identity?	
To what extent is the quality of life for families better than for students in York?	



2.

PMT

only

Examiner only

(b) Study **Table 2.2**. It shows part of the students' **Environmental Quality Survey**. It shows the impact of litter and graffiti in York.

 Table 2.2 – Part of the Environmental Quality Survey

GRAFFITI	LOW IMPACT	MEDIUM IMPACT	HIGH IMPACT
Every 10 metres	1 item	2 to 10 items	Over 10 items
Tally	III	I	None
Weighting	5	5	5
Score	15	10	0

LITTER	LOW IMPACT	MEDIUM IMPACT	HIGH IMPACT
Every 10 metres	1 piece	2 to 10 pieces	Over 10 pieces
Tally		III	JHT III
Weighting	5	5	5
Score	20	15	

(i) Complete **Table 2.2** to show the high impact score for litter.

(ii) Some local people feel that litter has a greater impact than graffiti on environmental quality. How would you adapt the survey to show this?

[1]

Examiner only

> C111U301 11

(c) Study **Table 2.3**. It shows the students' scores for environmental quality from the centre of York.

Distance from York City Centre (m)	Environmental Quality Index (EQI) Score (1 = low, 100 = high)
0	20
200	30
400	65
600	55
800	50
1000	90

Table 2.3 – Transect data showing environmental quality in York

Sketch an appropriate graph to display the data in **Table 2.3**. Use the outline below. [4]

A graph to show distance and EQI from York City Centre



Statement	Term
I completed the environmental quality survey myself, it was my own opinion only.	Bias Secondary data Conclusion
When I looked at my recording sheet back at school, I realised I couldn't read my writing for all the readings, so I had to guess some.	Accuracy Control group Evaluation
I measured the litter along one street before and after the football match and I compared my results.	Bias Secondary data
	Control group
(i) This question is about your own fieldwork experience	of investigating inequality .
 (i) This question is about your own fieldwork experience e of investigation on inequality Give one reason why your data collection was reliab 	e of investigating inequality .
e of investigation on inequality	e of investigating inequality .
e of investigation on inequality Give one reason why your data collection was reliab	e of investigating inequality .



(ii)	Evaluate one strength and one limitation of your conclusions. Strength:	[4]
	Limitation:	
Ad	ditional space for Question 2 (e)(ii) only:	
······		
	END OF PART B	



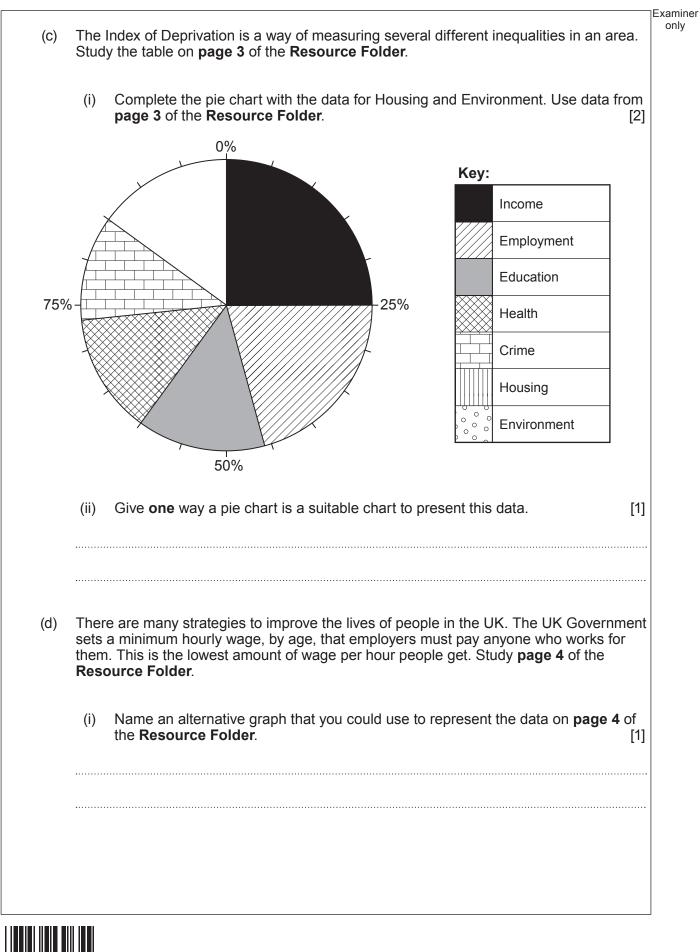
Part C: The wider UK dimension		
Answer all parts of this question.		
You should use your understanding of UK geography to support you	r answers.	
Study the graphs on page 2 of the Resource Folder.		
Tick (✓) three correct statements in the table below. Use page 2 of Folder .	the Resource	[3
	Tick (√) three	
The UK's population is projected to reach 70 million by 2031.		
Most people in the UK live in towns.		
Town populations have a higher % growth than city populations.		
The UK's population has declined since 1951.		
The highest urban percentage growth in population, between 2001 and 2019, was in inner London.		
11 million people lived in the UK in 2019.		
The UK's population grew by over 15 million people between		



3.

Explain why some people move from rural to urban areas in the UK.	[6]
Give two reasons why rural to urban migration can have an impact on UK areas.	urban [4]
Reason 1:	
Reason 2:	
Reason 2:	
	areas.





16

 (iii) Give one reason why having a minimum hourly wage could reduce deprivation. [2] [2] [3] [4] [4] [4] [4] [4] [4] 	(ii) 	Graphs should be easy to draw and understand. Give one other way the graph you have chosen is suitable. [1]
food parcels to local people who need them. Study page 5 of the Resource Folder. Compare the numbers of food parcels distributed in 2019 and 2020. Use page 5 of the Resource Folder. [4]	(iii)	
	food Cor	d parcels to local people who need them. Study page 5 of the Resource Folder . npare the numbers of food parcels distributed in 2019 and 2020. Use page 5 of the
	······	



		∣Exam
(f)	Study the information on page 6 of the Resource Folder . It shows three strategies to manage inequality:	on
	 Improving Transport Community Support Economic Assistance 	
	Which of these three strategies do you think is the most sustainable way to reduce inequality in the UK? [12]	
	Use the information in the Resource Folder and your wider geographical understanding to support your answer.	
	Your ability to spell, punctuate and use grammar and specialist terms accurately will be assessed in your answer to this question. [4]	
•••••		
······		
·····		
•••••		
······		
•••••		
•••••		
•••••		
·····		



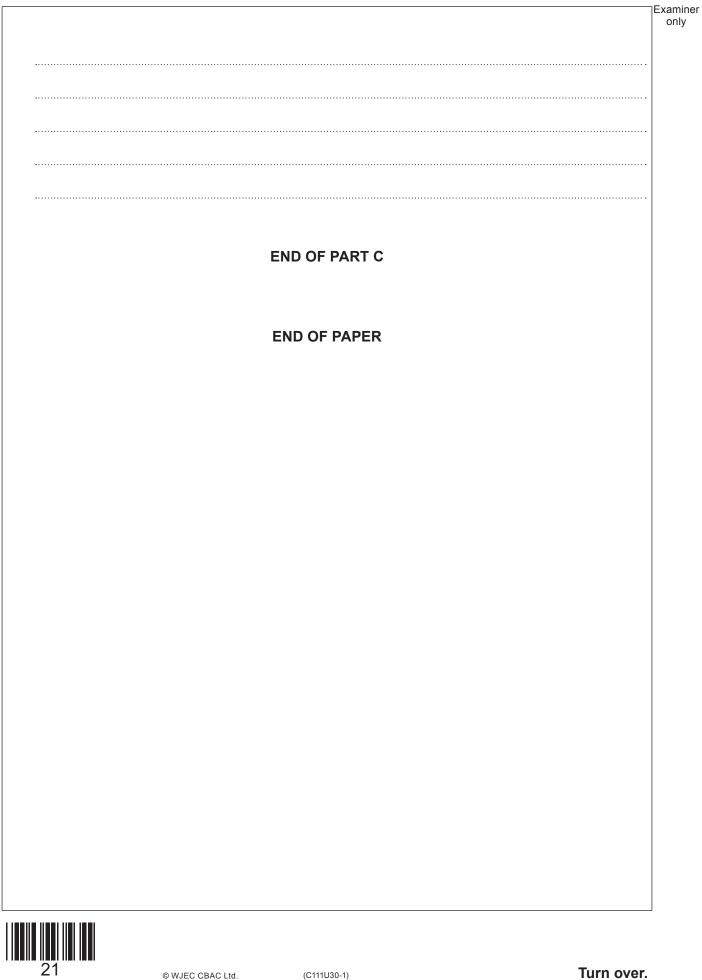
19	
	Examine
· · · · · · · · · · · · · · · · · · ·	
	•••••••



		Exa
•••		
•••		
•••		
•••		
•••		
•••		
•••		
•••		
•••		
•••		
•••		
•••		
•••		
•••		
•••		
•••		
	delition of an operation O (f) and a	
Ρ	dditional space for Question 3 (f) only:	
•••		
•••		



21



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



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



BLANK PAGE

PLEASE DO NOT WRITE ON THIS PAGE





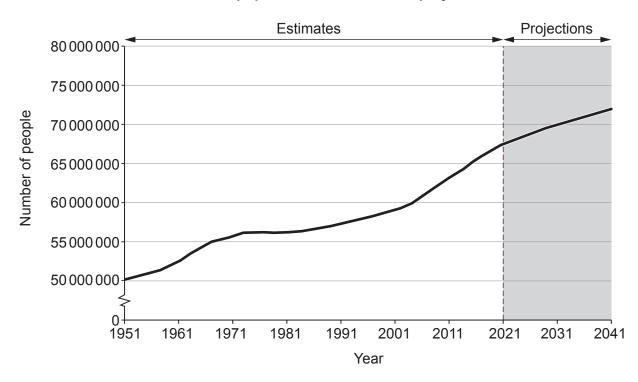


FRIDAY, 16 JUNE 2023 – AFTERNOON

GEOGRAPHY A – Component 3

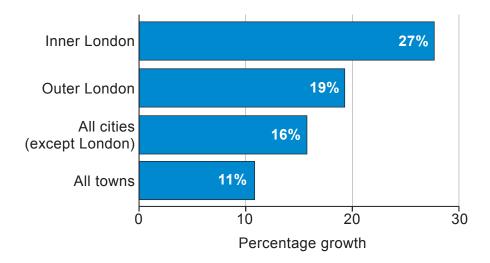
RESOURCE FOLDER

This folder is for use with questions in **Component 3**. This folder need not be handed in with your answer booklet.



The UK's population estimates and projections

Percentage growth of population for selected urban areas in the UK between 2001 and 2019



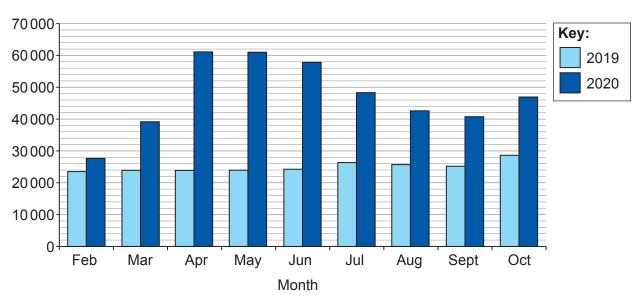
C111U301A 03

Categories that make up the Index of Deprivation

Category	Percentage each category contributes to the Index of Deprivation		
Income	25%		
Employment	21%		
Education	14%		
Health	13%		
Crime	12%		
Housing	10%		
Environment	5%		

Minimum wage per hour in the UK, April 2022





The number of food parcels distributed by local food banks in the UK (February to October, 2019 and 2020)

Strategies to Manage Inequality



COMMUNITY SUPPORT

- Neighbourhood Watch local people looking out for crime and reporting it.
- Resource Banks donated furniture, food and toys shared within a community.





ECONOMIC ASSISTANCE

- Affordable homes housing for people on lower incomes.
- Government grants money and advice from government to help start local businesses.

BLANK PAGE

7

8

LAND FEATURES

Landranger series (1:50 000 scale) LANDRANGER MAP SYMBOLS



See website for full list

ROADS AND PATHS	Not necessarily rights of way
Service M1 Elevated	Motorway (dual carriageway)
¹ Junction number	
Unfenced Dual carriageway	Primary Route
A 470 Footbridge	Main road
	Road under construction
B 4518	Secondary road
A 855 Bridge B 885	Narrow road with passing places
	Road generally more than 4m wide
	Road generally less than 4m wide
	Other road, drive or track
	Path
	Gradient: steeper than 20% (1 in 5)/ 14% to 20% (1 in 7 to 1 in 5)
	Gates / Road tunnel
Ferry P	Ferry (passenger) / Ferry (vehicle)

	Cutting, embankment	+	Graticule intersection at 5' intervals
<u>x x x</u>	Electricity transmission line (pylons shown at standard spacing)		Landfill site or slag/spoil heap
>>> _/p ruin	Pipe line (arrow indicates direction of flow)	* * *	Coniferous wood
	Buildings		Non-coniferous wood
	Important building (selected)	****	Mixed wood
	Bus or coach station		Orahard
\$	Glass structure		Orchard
\oplus	Heliport		Park or ornamental ground
± •	Current or former place of worship; with tower with spire, minaret or dome		Access land (symbols indicate owner or agency - see below)
+	Place of worship	Ç ≱	Forestry Commission
Δ	Triangulation pillar	\otimes	Natural Resources Wales
Σ	Mast		National Trust; always open,
Ť	Wind pump	* *	limited access - observe local signs
X卜	Wind turbine		National Trust for Scotland;
还	Windmill with or without sails	<u>8</u> 8	always open, limited access - observe local signs

MS

Mus

Ρ

PC

PH

Sta

Sch

ΤН

Univ

Milestone

Museum

Station

School

University

Post office

Public house

Public convenience (in rural areas)

Town Hall, Guildhall or equivalent

RAILWAYS

 Track multiple or single	a	Station, (a) principal
 Track under construction		Siding
Light rail system, narrow gauge or tramway Bridges, footbridge Tunnel, cutting		Light rail system station Level crossing Viaduct, embankment

PUBLIC RIGHTS OF WAY Not shown on maps of Scotland Public rights of way shown on this map have been taken from local authority definitive maps and later ----- Footpath ---- Bridleway amendments. Restricted byway (not for use by mechanically propelled vehicles) The symbols show the defined route so far as the scale of the mapping will allow. -----+-+-+- Byway open to all traffic Rights of way are liable to change and may not be clearly defined on the ground. Please check with the relevant local authority for the latest information. Rights of way are not shown on maps The representation on this map of any other road, track or path is no evedence of the existence of a right of way. in Scotland.

OTHER PUBLIC ACCESS

National Trail, Scotland's Great Trails, •••• Other route with public access ٠ ٠ European Long Distance Path and selected Recreational Routes (not normally shown in urban areas) The exact nature of the rights on • . On-road cycle route • these routes and the existence of any restrictions may be checked with the local highway authority. 0 0 0 Traffic-free cycle route Cycle Network number; National / Regional 4 8 Alignments are based on the best information available. These routes

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

BOUNDARIES

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

WATER FEATURES

	Slopes Cliff Slopes Cliff Hat rock	High water mark Low water mark
Aqueduct Canal Weir Normal tidal I Lake Footbridge Bridge	imit Sand	hthouse (disused) Albeacon Mud Albeacon Mud

ARCHAEOLOGICAL AND HISTORICAL INFORMATION					
+ Site of an ☆ ···· Visible ea		VILLA Castle	Roman Non-Roman	∞1066	Site of battle (with date)
HEIGHTS			R	OCK FEATL	JRES
50	Contours are metres vertice		Cliff-650		
14 4	Heights are nearest meti mean sea le	Ints are to the est metre above n sea level			
Where two heights are shown, the first is the height of the natural ground in the location of the triangulation pillar, and the second (in brackets) to a separate point which is the natural summit.					
TOURIST INFORMATION					
		X			
Viewpoint	180°	X ዳ	Camp site	Caravan site	
💥 Viewpoint	360°	Æ	Camping a	nd caravan si	te

are not shown on maps of Scotland

TC

ABBREVIATIONS

Bridge

Cemetry

College

House

Hospital

Milepost

Cattle grid

Clubhouse

Br

Cemy

CG

CH

Coll Fm Farm

Но

Hospl MP

			oump one / our avail one
*	Viewpoint 360°	,9 Å	Camping and caravan site
V	Visitor centre		Selected places of tourist interest
•	Walks / trails	i i	Information centre, all year / seasonal
1	Nature reserve	Р	Parking
X	Picnic site	P&R P&R	Park & Ride, all year / seasonal
	Youth hostel		Phone, public / emergency / roadside assistance
٢	Golf course or links	٢	Recreation / leisure / sports centre
:::	Garden / arboretum	\bigcirc	World Heritage site or area