Surname	Centre Number	Candidate Number
First name(s)		0



GCSE





C111U10-1

MONDAY, 23 MAY 2022 - MORNING

GEOGRAPHY A – Component 1

Changing Physical and Human Landscapes

1 hour 30 minutes

For Exa	aminer's us	e only
Question	Maximum Mark	Mark Awarded
1	34	
2	34	
SPaG	4	
either 3	16	
or 4	16	
Total	88	

ADDITIONAL MATERIALS

Resource Folder.

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

INSTRUCTIONS TO CANDIDATES

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

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

Answer **both** questions in Section **A**.

Answer **one** question in Section **B**.

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.

Your ability to spell, punctuate and use grammar and specialist terms accurately will be assessed in your answer to question **2**(c)(iii).



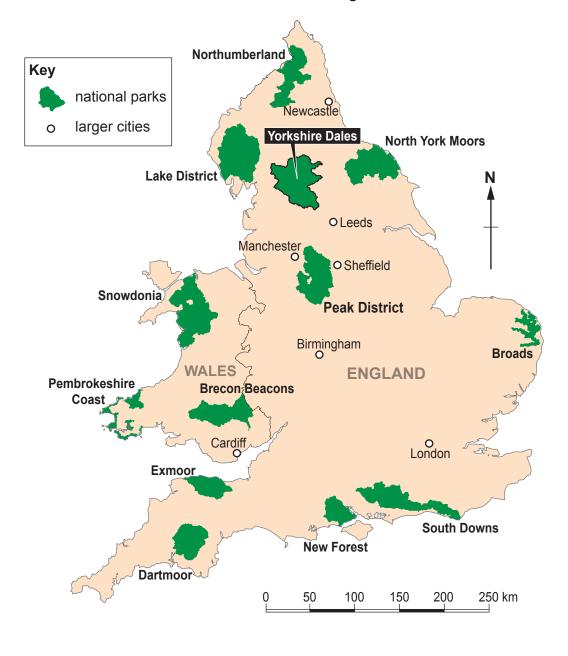
SECTION A: CORE THEMES

Answer all of the questions in this section.

CORE THEME 1: Landscapes and Physical Processes

1. (a) Study Map 1.1 below. It shows the National Parks of England and Wales.

MAP 1.1 - The National Parks of England and Wales





The three National Parks in Wales cover approximately 20% / 45% / 60% of the land area. (iii) Describe the location of the Yorkshire Dales within England. [3] (iv) The Yorkshire Dales, like other National Parks, contains honeypot sites. These attract many visitors.	The three National Parks in Wales cover approximately 20% / 45% / 60% of the land area. (iii) Describe the location of the Yorkshire Dales within England. [3] (iv) The Yorkshire Dales, like other National Parks, contains honeypot sites. These attract many visitors. Explain why too many visitors at honeypot sites is an important issue. [4]	The three National Parks in Wales cover approximately 20% / 45% / 60% of the land area. (iii) Describe the location of the Yorkshire Dales within England. [3] (iv) The Yorkshire Dales, like other National Parks, contains honeypot sites. These attract many visitors. Explain why too many visitors at honeypot sites is an important issue. [4] Name of landscape studied	(i)	Name one National Park in the south-west of England.	[1]
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(iv) The Yorkshire Dales, like other National Parks, contains honeypot sites. These attract many visitors. Explain why too many visitors at honeypot sites is an important issue. [4]	(iv) The Yorkshire Dales, like other National Parks, contains honeypot sites. These attract many visitors. Explain why too many visitors at honeypot sites is an important issue. [4] Name of landscape studied	(iv) The Yorkshire Dales, like other National Parks, contains honeypot sites. These attract many visitors. Explain why too many visitors at honeypot sites is an important issue. [4] Name of landscape studied			% of
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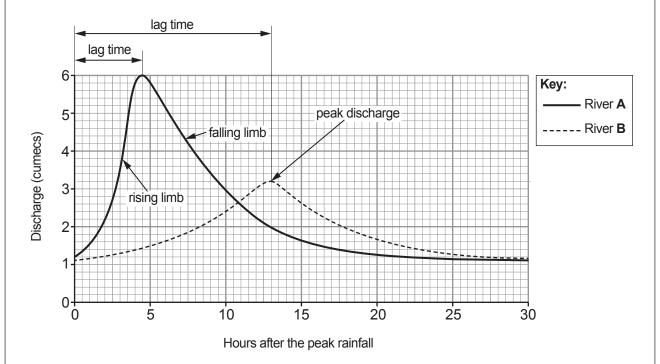


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(b) A hydrograph shows the discharge of a river after a period of heavy rainfall. Study **Graph 1.2** below.

Graph 1.2 – A hydrograph for two rivers



(i)	Give the lag time (difference in hours between peak rainfall and peak discharge	e)
	for river B .	[1]

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(ii)	State two	differences,	other than	lag time,	between	the	discharge	for rive	r A ar	nd
	river B .									[2]

Difference 1

Difference 2



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Factor 2 (iv) Explain why impermeable surfaces can increase the risk of river flooding.	(iii)	The lag time can be affected by the underlying geology of a drainage basin Give two other factors that can affect the lag time. Factor 1
(iv) Explain why impermeable surfaces can increase the risk of river flooding.		Factor 2
	(iv)	Explain why impermeable surfaces can increase the risk of river flooding.
Additional space for question 1(b)(iv) only:	Addi	tional space for question 1 (b)(iv) only:



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[1]

(c) Study **Photograph 1.3** below.

Photograph 1.3 – A river flowing in an upland area of the UK



(i) Identify the landform in the photograph.

Tick (✓) the correct box below.

Landform	Tick (√) one
Slip-off slope	
Waterfall	
V-shaped Valley	



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(i	ii)	Complete the foll below.	lowing paragra	ph by selec	ting the corr	ect term fro	m the box	[3]
ang	gula	r laterally	suspe	ension	verticall	y a	attrition	
		horizontally	smooth	weath	nering	rounded		
		Rivers flowing ov	. •			•		
		lying in the river						
		river flows downs						
		the overall size of	of the bedload.					
(ii	ii)	Describe how lar fluvial (river) tran		lers can be	moved dowr	nstream by	a process o	of [2]
	•••••							••••••



Turn over.

(d)	Study the information in Resource Box 1.4 , in the separate Resource Folder .	
	Analyse the different factors that may be responsible for the rate of landform change along this coastline. Use evidence from the resource box to support your answer.	[8]
		••••
		••••••
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CORE THEME 2: Rural-Urban Links

2. (a) Study **Table 2.1** below. It shows the number of people commuting out of Wrexham County in North East Wales.

Table 2.1 – Number of people commuting out of Wrexham County 2010–2019

2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
16600	17 700	18 000	17900	14900	15700	15900	17 300	19400	16800

(i) Calculate the range in this dataset. Show your working in the space below.

[2]

Range

(ii) The range is a measure of dispersion.

State **one** way in which the interquartile range may be a more appropriate measure of dispersion.

[1]

(iii) In 2019 the total number of working residents in Wrexham County was 66400.

Calculate the percentage of people who commuted out of the county in 2019. Show your working in the space below.

[2]

.....%



1

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(iv)	Describe two ways in which counter-urbanisation has affected patterns of commuting in the UK.	[4

• • • • • • • • • • • • • • • • • • • •		

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(b)	Stud Shre	ly the OS Map 2.2 , in the separate Resource Folder . It shows the town of ewsbury, Shropshire.	
	(i)	Grid square 4912 is the town centre of Shrewsbury. Give one piece of map evidence which shows this.	
	(ii)	In grid square 4513 people can park their cars and use public transport into the centre of Shrewsbury (Park and Ride).	
		Give one reason why this location was chosen for Park and Ride. Use map evidence.	
	(iii)	Some retailers choose out of town sites for their stores. Explain why.	



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	Explain why brownfield sites are often chosen as locations for new retail developments.	[6
•••••		
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	Additional appear for avocation O(h)(i,) and u	
	Additional space for question 2 (b)(iv) only:	
	Additional space for question 2(b)(iv) only:	



Examiner only

[1]

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(c)	(i)	What are global cities?	Tick (✓) the	correct	definition	below.
-----	-----	-------------------------	--------------	---------	------------	--------

Definition	Tick (√) one
Cities with a population greater than 10 million.	
Cities which are the largest in a country.	
Cities which are well-connected with the rest of the world.	

(ii)	Give three ways in which a global city you have studied is connected to its wide city-region.	r [3]
	Name of global city	
•••••		
••••••		
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(iii) Study the information in **Resource Box 2.3**.

Resource Box 2.3 - Information about the city of Kolkata, India

- Kolkata has a population of 14.9 million.
- Its population density is 24 000 per sq km. (London has 5 700 per sq km)
- Many people migrate to Kolkata from other parts of north-east India.
- The city has a severe housing shortage.

Location of Kolkata



Slum quarter, Shibpur district



Many people work in the informal sector



About a third of the population live in bustees (slums).

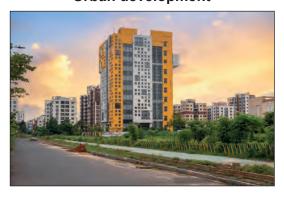
Thousands more are pavement dwellers.

The state government has programmes to improve the bustees, but also schemes for slum clearance and resettlement to new locations.

People can get cheap loans from banks.

Many charities also provide help to people in Kolkata and elsewhere.

Urban development



Housing development in a 'New Town' on the edge of Kolkata as a possible alternative to the slums



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	Your ability to spell, punctuate and use grammar and specialist terminology accurately will be assessed in your answer to this question.	[4
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Additional space for	question 2(c)(iii) only:	Ex
	End of Question 2	



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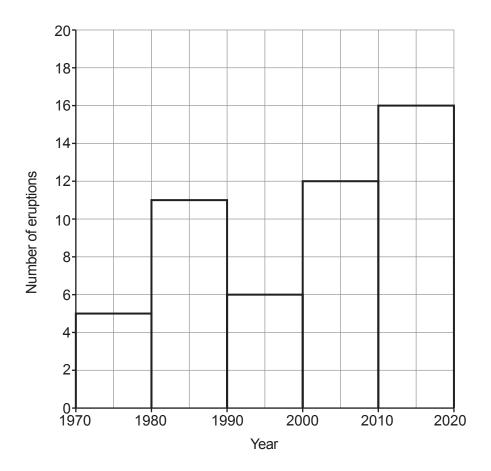
SECTION B: OPTIONS

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 the histogram below. It shows the number of volcanic eruptions with a Volcanic Explositivity Index (VEI) of 3 and above between 1971 and 2020.

Graph 3.1 – Number of Larger Volcanic Eruptions 1971–2020





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	(i) Why was a histogram selected to present this data?	[2]
	(ii) Stratovolcanoes usually have a VEI of 3 and above. Give two reasons why stratovolcanoes are dangerous.	[4]
		ith volcania
(b)	Give two ways in which hazard mapping can reduce the risks associated wi	
(Give two ways in which hazard mapping can reduce the risks associated wi eruptions. Way 1	[2]
	eruptions.	[2]



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(c) Study the information in **Resource Box 3.2** below.

Resource Box 3.2 – Information about The Philippines

- The Philippines is a country made up of over 7 000 islands.
- · Luzon is the main island.
- It has a population of 109 million with 47.4% living in urban areas.
- It is a NIC with a GNI per capita of US\$ 10720.
- Its HDI figure improved by 12.9% between 2000 and 2017.
- At least 40% of employed people work in the informal sector.
- The Philippines is near a plate boundary and has 53 active volcanoes.

Location of The Philippines

Taal eruption January 12, 2020

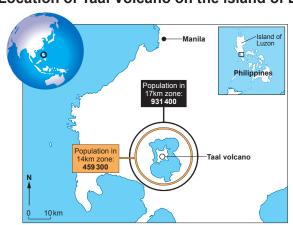






Ambulance covered in ash

The Location of Taal Volcano on the island of Luzon



Philippines Fact Box

- · Taal volcano previously erupted 43 years ago.
- It's the second most active volcano in The Philippines.
- The volcano is a large caldera filled by Taal Lake.
- Taal is only 70 km to the south of the capital city, Manila.
- The 2020 eruption resulted in the evacuation of 8 000 people and the closure of schools, workplaces and the cancellation of flights.
- 39 people died in the 2020 eruption.



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'Social and economic factors are more significant than physical factors in making The Philippines more vulnerable to the impacts of volcanic eruptions.' How far do you agree with this statement?	e [8]



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Additional space for	or question 3(c) only:		
	End of Question 3	3	



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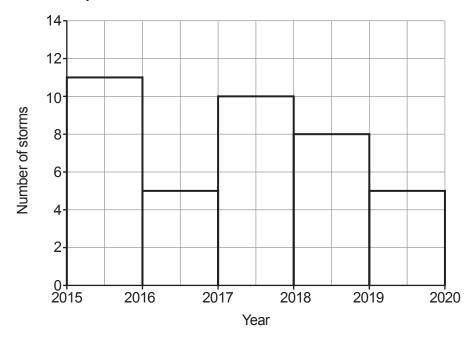
Examiner only

THEME 4: Coastal Hazards and their Management

If you have answered question 3, do not answer question 4.

4. (a) Study the histogram below. It shows the number of named UK storms (powerful storms) between 2015 and 2020.

Graph 4.1 – Number of named storms 2015–2020



(1)	why was a histogram selected to present this data?	[2]



26

		[4]
		· · · · · · ·
(b)	Give two ways in which hazard mapping can reduce the risks associated with coastal	
	flooding.	[2]
	Way 1	
		••••
	Way 2	



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(c) Study the information in **Resource Box 4.2** below.

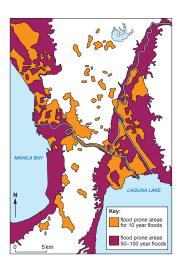
Resource Box 4.2 – Information about The Philippines

- The Philippines is a country made up of over 7000 islands.
- · Luzon is the main island.
- It has a population of 109 million with 47.4% living in urban areas.
- It is a NIC with a GNI per capita of US\$ 10720.
- Its HDI figure improved by 12.9% between 2000 and 2017.
- At least 40% of employed people work in the informal sector.
- · On average 9 typhoons make landfall on the islands each year.

Location of the Philippines

CHINA TAIWAN Philippine Sea Island of Luzon VIETNAM South China Sea BRUNEI MALAYSIA

Flood Risk Map of area around Manila



Location of the capital city, Manila, on island of Luzon





Manila airport – cancelled flights



Fishermen's stilt houses along the Luzon Coast

Typhoon Kammuri December 5, 2019

- Kammuri made landfall on the south eastern part of Luzon.
- It was a powerful typhoon equivalent of a Category 4 Atlantic hurricane.
- Tropical Cyclone Warning Systems were issued as the storm came close to Luzon.
- Flood waters forced 60 000 people to flee their homes and landslides cut off roads to some isolated towns.
- 12 people died and damage repair was estimated at US\$116 million.
- Climate change is likely to increase the risk of coastal floods in the future.



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with this s	d economic factors s more vulnerable tatement?	p = - 10 - 1		[8]



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		End of Questi	ion 4	
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Shinale

Lighthouse (disused)

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Landranger series (1:50 000 scale)

LANDRANGER MAP SYMBOLS



Graticule intersection at 5' intervals

Landfill site or slag/spoil heap

Coniferous wood

Mixed wood

4

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흥

Milestone

Post office

Station

School

University

Public house

Mus Museum

MS

PC

PH

Sta

Sch

TH

Univ

Contours are at 10

Heights are to the

Golf course or links

Garden / arboretum

nearest metre above mean sea level

metres vertical interva

VILLA Roman

Castle Non-Roman

Non-coniferous wood

Park or ornamental ground

Forestry Commission

Natural Resources Wales

National Trust; always open,

National Trust for Scotland;

always open limited access -

observe local signs

Public convenience (in rural areas)

Town Hall, Guildhall or equivalent

ROCK FEATURES

Cliff -650

Cliff

X ... Camp site / Caravan site

Camping and caravan site

Selected places of tourist interest

information centre, all year / seasonal

Park & Ride, all year / seasonal

Phone, public / emergency / roadside assistance

Recreation / leisure / sports centre

World Heritage site or area

Outcrop

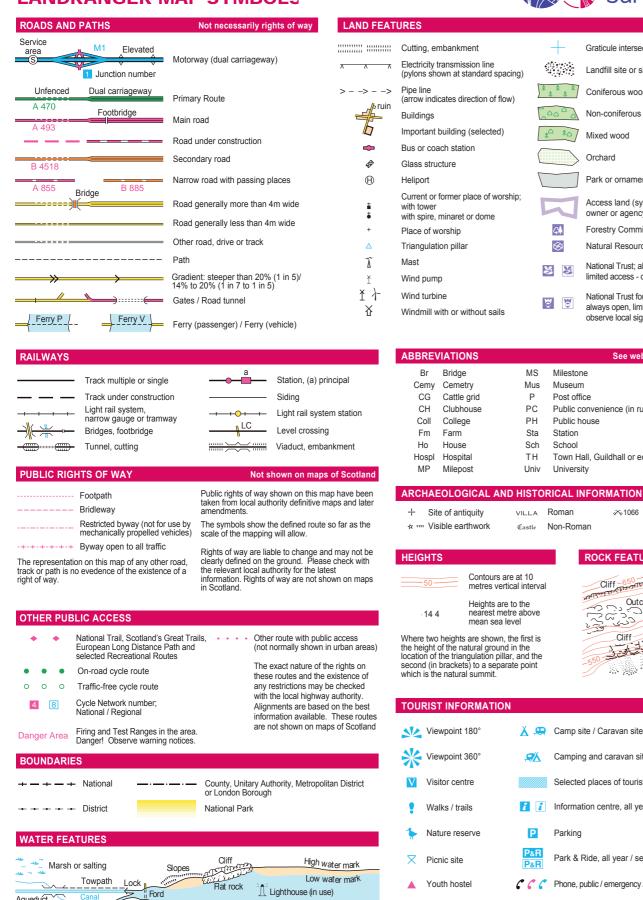
Scree

limited access - observe local signs

See website for full list

(with date)

Access land (symbols indicate owner or agency - see below)



Normal tidal limit

Weir

canal (dry)

Footbridge



GCSE

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MONDAY, 23 MAY 2022 - MORNING

GEOGRAPHY A – Component 1

Resource Folder

RESOURCE FOLDER

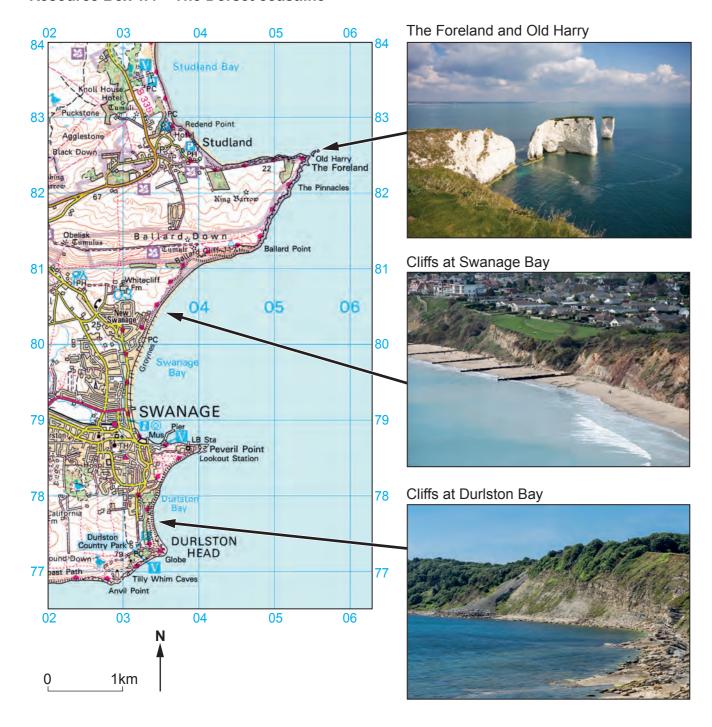
This folder is for use with questions in:

CORE THEME 1: Landscapes and Physical Processes CORE THEME 2: Rural-Urban Links.

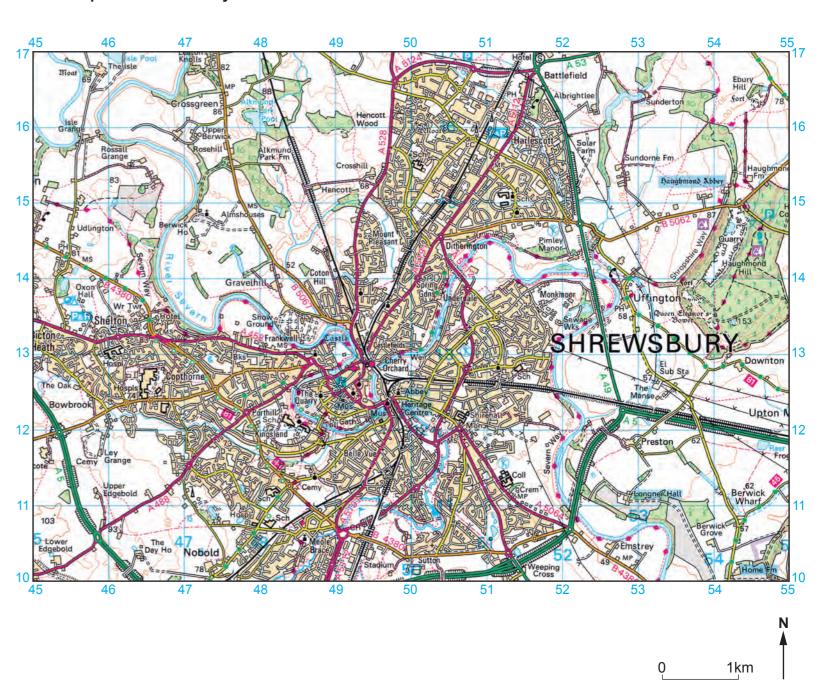
This folder need not be handed in with your answer booklet.

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Resource Box 1.4 – The Dorset coastline



OS Map 2.2 - Shrewsbury



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