Centre Number	Candidate Number
Surname	
Other Names	
Candidate Signature	



General Certificate of Secondary Education Foundation Tier Specimen Paper

Geography (Specification A)

4030/1F

Unit 1: Physical Geography

Date: Time

You will need no other materials.

- the insert (enclosed)
- a ruler

You may use a calculator.

Time allowed

1 hour 30 minutes

Instructions

- · Use black ink or black ball-point pen. You may use pencil for maps, diagrams and graphs.
- Fill in the boxes at the top of this page.
- Answer three questions: one from Section A, one from Section B and one further question from either Section.
- · You must answer the questions in the spaces provided. Answers written in margins or on blank pages will not be marked
- Do all rough work in this book. Cross through any work you do not want to be marked.

Information

- The maximum mark for this paper is 75.
- The marks for questions are shown in brackets.
- · You will be marked on your ability to:
 - use an appropriate form and style of writing
 - organise relevant information clearly and coherently
 - use specialist vocabulary where appropriate.



For Examiner's Use Examiner's Initials Question Mark 1 17 3 4 17 5 6 7 20 **TOTAL** 54

SECTION A

Answer at least **one** question, but **not more than two** questions in this Section. Use your case studies to support your answers where appropriate.

The Restless Earth

Total for this question: 25 marks

1 Study Figure 1 which shows the earth's tectonic plates and the distribution of volcanoes and supervolcanoes.

Figure 1

The Diagram map of the world showing the earth's tectonic plates and distribution of volcanoes and supervolcanoes, has been removed for third party copyright resitrictions. Please refer to the printed paper version of this paper.



Paper 1 Foundation Tier

1	(a)	(i)	Tick the correct box to show whether each of the f the distribution of volcanoes and supervolcanoes is		
				True False	
			Volcanoes are only found on constructive plate boundaries.		
			There is a line of volcanoes on the west coast of North and South America.		
			The majority of supervolcanoes are to be found no destructive plate boundaries.	ear	
			Both volcanoes and supervolcanoes are sometime found away from plate boundaries.	s (4 marks)	2
1	(a)	(ii)	Complete the paragraph below to explain why volutionstructive plate boundaries. Choose the correct list.		
			gentle magma	apart	
				lava	
			At constructive plate boundaries, the plates are mo	oving together	
			Hot, molten rock called	from the mantle. This	
			Hot, molten rock called Magma moves up builds up and a volcano with gette side	es is formed. (3 marks)	

Question 1 continues on the next page



Paper 1 Foundation Tier

Turn over ▶

1	(a)	(iii)	following.
t			Shape A volcaro Lus a croter
			But a supervolegio does 10t
			Scale of eruption A Supervolcaro is Much
			bigger. It gives off more ash and
			lava
			± **

(4 marks)

1 (b) Study **Figure 2** which shows information about the six earthquakes that have caused most deaths in the last 100 years.

Figure 2

Year	Location	Level on Richter Scale	Number of deaths
1976	Tangshan, China	7.5	255 000
2004	Sumatra	9.1	227 900
1920	Haiyuan, China	7.8	200 000
1923	Kanto, Japan	7.9	142 000
1948	Ashgabat, USSR	7.3	110 000
2005	Pakistan	7.6	86 000

1 (b) (i) Give evidence that is either for or against the statement that 'the higher the magnitude of the earthquake, the greater the number of deaths'.

Circle either For or Against.

For / Against Sunatra will a Scole of 9.1	
Lad 227 900 decks but Aslachet	
with a scale of 7.3 orly Lad 110,000	•
dects.	

(2 marks)



Paper 1 Foundation Tier

1	(b)	(ii)	Suggest possible reasons why most deaths occurred in Tangshan, China, even though this earthquake measured 7.5 on the Richter scale.
			It is 12 a poor country and
			it was in a dessety populated
			area
			(2 marks)
1	(c)	Desc	cribe a method, other than the Richter Scale, of measuring earthquakes.
-		1	e Mercalli scole russies the damage
		<u>S</u>	y an eartighoke on a scale of 1-12)
		.A	earthquike on a scale of I would not be
		fel	t, and 12 unld mean total destruction
	/	Sci	de 5 is where everybody would feel the
L2.			ects. Buildings would be damaged
	\	11	er the scale reacles 7/8, with to buildings
	,	Se,	It standing at a scale of 10/11 (4 marks)
		(Exti	ra space)

Question 1 continues on the next page



Paper 1 Foundation Tier

Turn over ▶

	(d) Describe the immediate and long-term responses to an earthquake that you have studied in a poor part of the world.	1
	An earthquake Lit Colombia in South America in	
	1999. Over 1000 people were killed and many ciffee	
	faims were destroyed. Buildings were destroyed	
	and telephone hus brought down. Gas pipes were	
	broken causing fires. Crime went up as Pooters	
	started stealing ford. The price of coffee	11
	best up is the long-term The local authorities	LI
	started rebuilding Louses) The Sparish government	
3	gave morey to Lelp rebuild the Lowes, and	
	(He United Nations appecled for 3 sullin	
	dollars to lesp the country.) (6 marks)	
	(Extra space)	
	(Ехиа space)	

4		

)7 2/5



Paper 1 Foundation Tier

SECTION B

Answer at least one question, but not more than two questions in this section. Use your case studies to support your answers where appropriate.

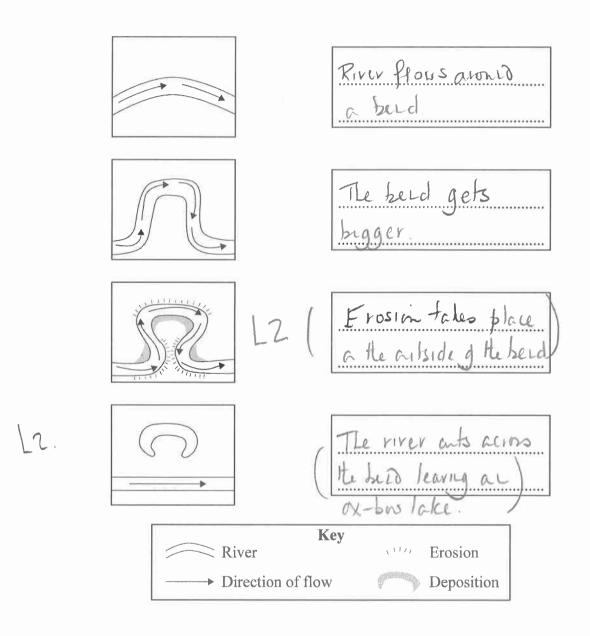
5	Wat	er on	the Land	Total for this question: 25 marks
5	(a)	Study	y Figure 12 , on the insert, a 1:50 000 Oreastle.	dnance Survey map extract of
5	(a)	(i)	What happens at X along the course of Toined by a Lo Her	•
	(-)	:\</th <th>A 6</th> <th>(1 mark)</th>	A 6	(1 mark)
5	(a)	(ii)	A 'waterfall' is found at Y. Give the m from the label. The water falls are.	
				(2 marks)
5	(a)	(iii)	Grid squares 1290 and 1291 are outlined Describe the channel and the valley of the squares. The viver is thirty. The Valley has Steep.	he River Valency in these grid H is harrow
				(3 marks)



5 (b) Figure 13 shows the stages in the formation of a river landform in its lower course.

Add a sentence in each box to explain the formation of the landform.

Figure 13



(4 marks)

Question 5 continues on the next page



Paper 1 Foundation Tier

Turn over ▶

5	(c)	Study	y Figure 12, the Ordnance Survey map extract of Boscastle.	
5	(c)	(i)	Boscastle experienced a flash flood on 16 August 2004.	
			Give the meaning of the term 'flash flood'. A FIVEY DYFAKS HE BALKS ALD Floods at the land	
			(2 marks)	1
5	(c)	(ii)	Using Figure 12 , the Ordnance Survey map of Boscastle, describe how each of the following contributed to the flooding.	
			The relief (height and shape of the land) in the Valency valley in grid square (1091). The hver is in a narrow steep sided velly. Hoodd withate the extra water	
			The river runs through Boscotte There hald be concrete which stopped the better sinking its the given of	3
			(4 marks)	-1.



Paper 1 Foundation Tier

5	(c) (iii) Study Figure 14 , on the insert, which shows part of Boscastle on 17 August 2004.	
	Three effects of flooding are arrowed and marked X, Y and Z on Figure 14.	
	Write labels for X, Y and Z to describe the effects of flooding in Boscastle.	
	x Rubbish abouted	
	y Building distroyed	
	z Road danaged	
	(3 marks)	
5	(d) Describe how hard engineering methods are used to control flooding.	
	A dam is an example of a Land	
	eignering relled This is built across a	
	river with shince gotes that can oper and	
	(close. When there is a flood the sluice gotes	
	are closed so the flood moter is tropped	
	belud the dam) The stone gotes can then	
	be great to let to flood water back into	
	Ate river gradually This means it with	
	Lot go down the river all at once and so will	
	(not writton the banks and flood the land)	
	along side the vally.	
7	Backs can built up so that the river	
	(Extra space) Lill Lold more voter The hears)	
	Den Hert is a flood the Local will stay	
	In the river and not creations the banks	



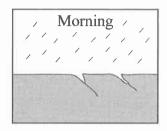
25

7 The Coastal Zone

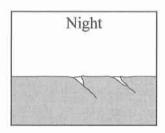
Total for this question: 25 marks

7 (a) **Figure 18** shows how freeze thaw weathering occurs. Add a sentence in each box to explain freeze thaw weathering.

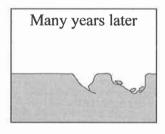
Figure 18



Rain gets into / cracks in the rock



Temperature drips and waterin cracks turns to



te cracks bigger which

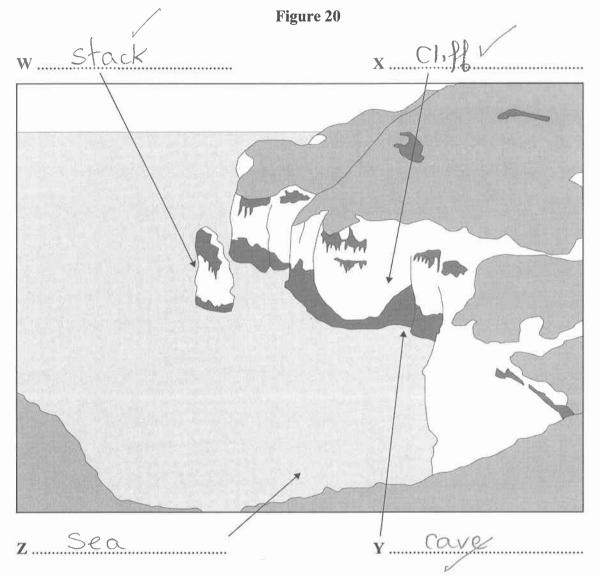
(3 marks)





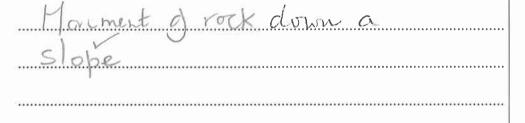
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7 (b) (i) Study Figure 19, on the insert, which shows the coastal zone at Flamborough, North Yorkshire. Figure 20 is a sketch of Figure 19. On Figure 20, label features W, X, Y and Z.



(4 marks)

7 (b) (ii) Mass movement is common in the area shown in **Figure 19**. What is meant by the term mass movement?



(2 marks)

7 (c) Study **Figure 21**, on the insert, a 1:50 000 Ordnance Survey map extract of Mappleton on the Holderness coast in Yorkshire.



Paper 1 Foundation Tier

7	(c)	(i)	X shows the position of the coastline in 1910. How much land has been lost since then? Z k, lone tee X (1 mark)
7	(c)	(ii)	Grid squares 2243 and 2244 are outlined on Figure 21.
			Describe the physical and human features of the coastline in these grid squares. There are cliffs and beades. The is a village with a kindmill and a bubble convenience. It is
			flat
			(3 marks)



Paper 1 Foundation Tier

7 (c) (iii	Using Figure 21 , describe the effects of continued coastal erosion on the settlement and residents of Mappleton.
	People would lose they long and
	so would not have anywhere to live.
	The B1242 might be distroyed so
	they could not get to work or go
	shopping elsewhere IT is a tomist
1	place Mere people come for biches
L2	This will be destroyed and so people lould
	(4 marks)
	(Extra space) and so flere would be a loss of
	busius
7 (c) (iv	A rock groyne has been built at Y on Figure 21. Longshore drift occurs mainly south eastwards.
	How will the groyne affect the process of longshore drift in this area?
	Said La longer
ald up	taken along the
o Ite	coast
u l	Daryt Gwy (2 marks)

Question 7 continues on the next page



Paper 1 Foundation Tier

/	(a)	explain why it provides a suitable habitat for the species living there.	
		Sand dunes are formed by	
	1	wind blowing sand about. These are	
		Small Lear He Dea and get Ligher	
	(further island.) The Sand hearthe sea is bong	
		Herr away or 10 Hashedaway out Ligh	
	/	Aide, blen the dries get high elongth not to	
		get wet they start growing marrow grass.	
	(-	This Los long roots so it can find enough	
L 2	. \	water deep Below the dunes Where the Sand	
		is being blow about there is very little	
		regetation Oca a dure stops moving,	
	1	more and more regetation grows forming (6 marks)	
		(Extra space) a Saidy Leaff Small annols	
		like rabbits mill totart to make burrows	
		1 the said.	
			Γ
		The second secon	

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END OF QUESTIONS



Paper 1 Foundation Tier



General Certificate of Secondary Education Foundation and Higher Tier Specimen Paper

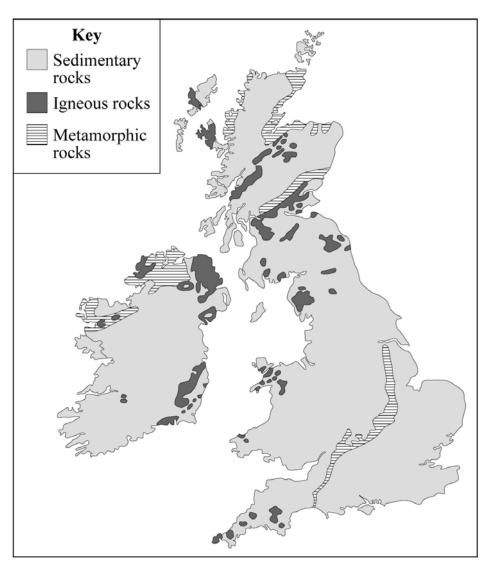
Geography (Specification A)

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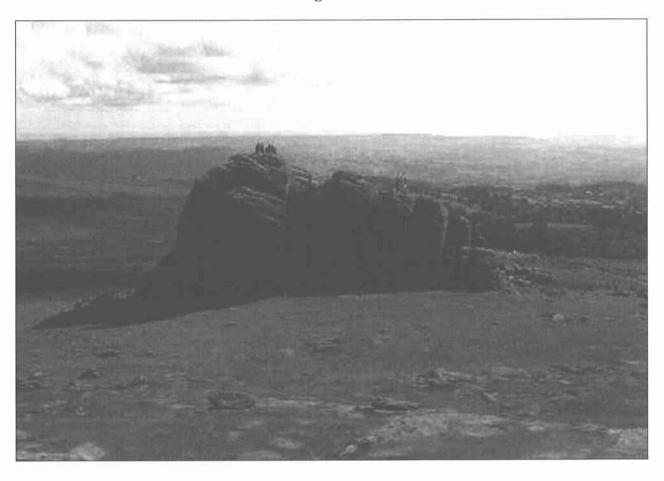
Unit 1

Insert

Photograph to be used when answering Question 1



For use with Question 2 Figure 5



For use with Question 3 Figure 8

The day the River Don claimed the Don Valley for itself again

JUNE has been the Sheffield's wettest-ever month since records began 120 years ago.

The city has been deluged with 269mm of rain, compared with the previous record of 225mm, set in June 1982.

Curator of Earth Sciences at Weston Park weather centre, said the normal average for June was just 67mm.

Monday saw 50mm of rain fall across the city.

And 88mm fell steadily over a 24-hour period on Thursday, June 14.

Two died, workers were trapped in factories, families airlifted from their flooded flats, and others stacked furniture and baled out basements and cellars.

Now all is calm again.

Isolated figures walk down the middle of Saville Street through the sludge, torn up Tarmac, smashed pallets, roadsigns, fences bent double around bus-stops and abandoned cars.

Some are returning to their shops and restaurants with dread in their hearts.

Others are looking for the cars they were forced to abandon the night before.

Across the other side of town Hallam University became a makeshift hotel when the country's railway network was stopped by the storm

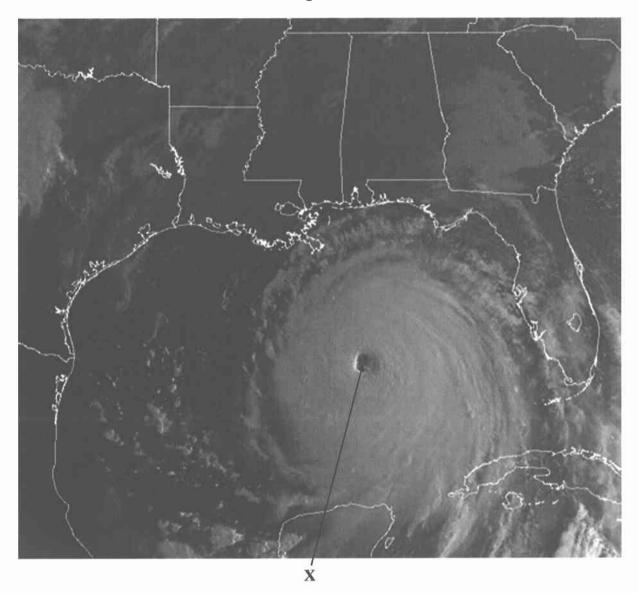
First class passengers stranded in Sheffield slept on the floor on mattresses alongside street drinkers brought in out of the rain.

They were fed and kept warm by a team of orangejacketed volunteers.

"We have had around 350 people stay here overnight, mostly rail travellers who couldn't get to their destinations and Sheffield people who couldn't get out of the city to get home," said a volunteer.

"The university provided bedding and breakfast this moming and the WRVS provided drinks and food last night."

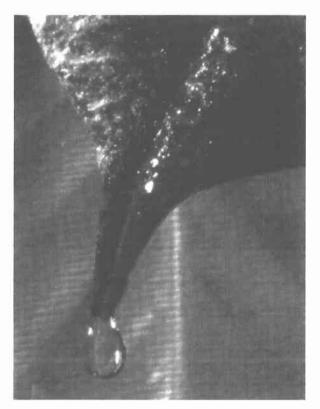
For use with Question 3 Figure 9



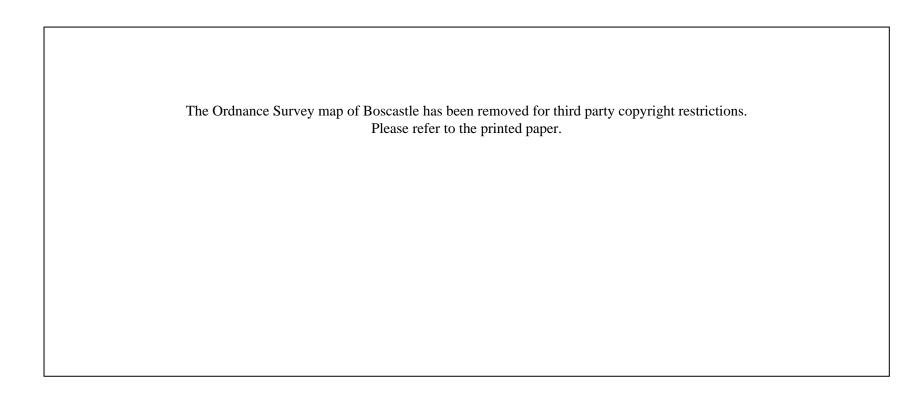
For use with Question 4 Figure 11 Foundation Tier Figure 12 Higher Tier

A B

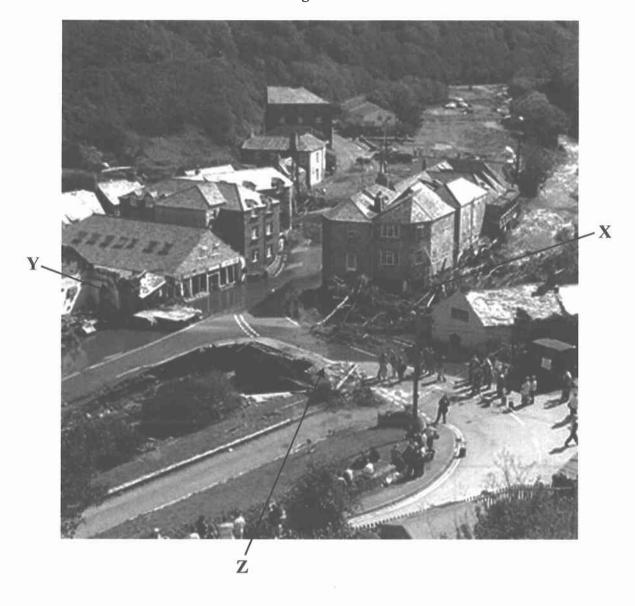




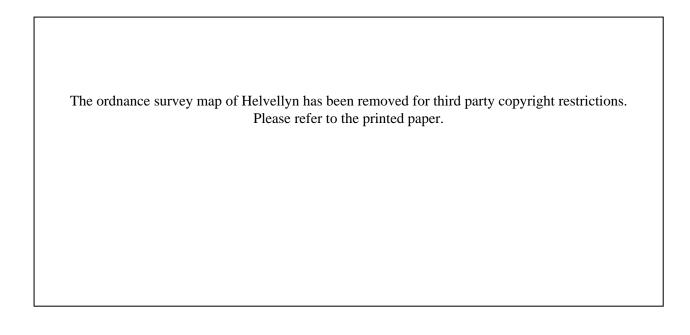
For use with Question 5 Figure 12 Foundation Tier Figure 13 Higher Tier



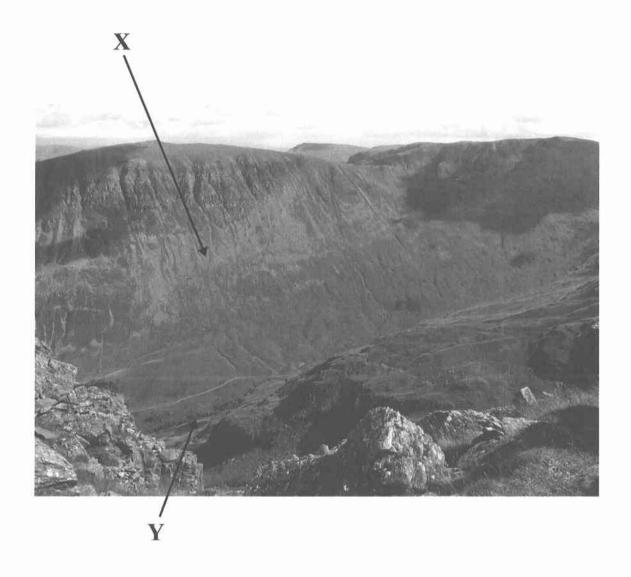
For use with Question 5 Figure 14



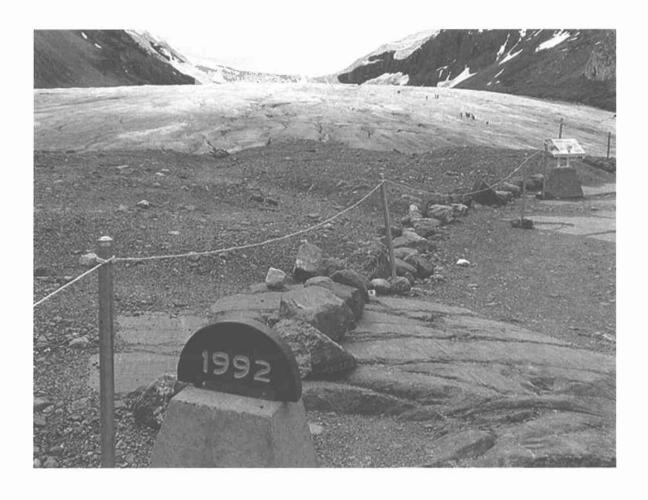
For use with Question 6 Figure 15 Foundation Tier Figure 16 Higher Tier



For use with Question 6 Figure 16 Foundation Tier Figure 17 Higher Tier



For use with Question 6 Figure 17 Foundation Tier Figure 19 Higher Tier



For use with Question 7
Figure 19 Foundation Tier
Figure 20 Higher Tier



For use with Question 7 Figure 21

The Ordnance Survey map of Mappleton has been removed for third poor copyright restrictions. Please refer to the printed paper.	arty