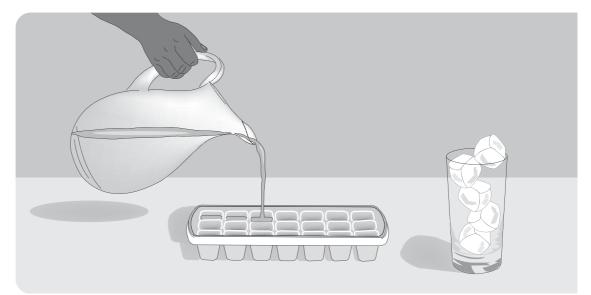
Sc	Science test				
KEY STAGE					
LEVELS 3–5	Test A				
	First name				
	Last name				
	School				



For marker's use only

Page	Marks
5	
7	
9	
11	
13	
15	
17	
19	
20	
TOTAL	

INSTRUCTIONS

Read this carefully.

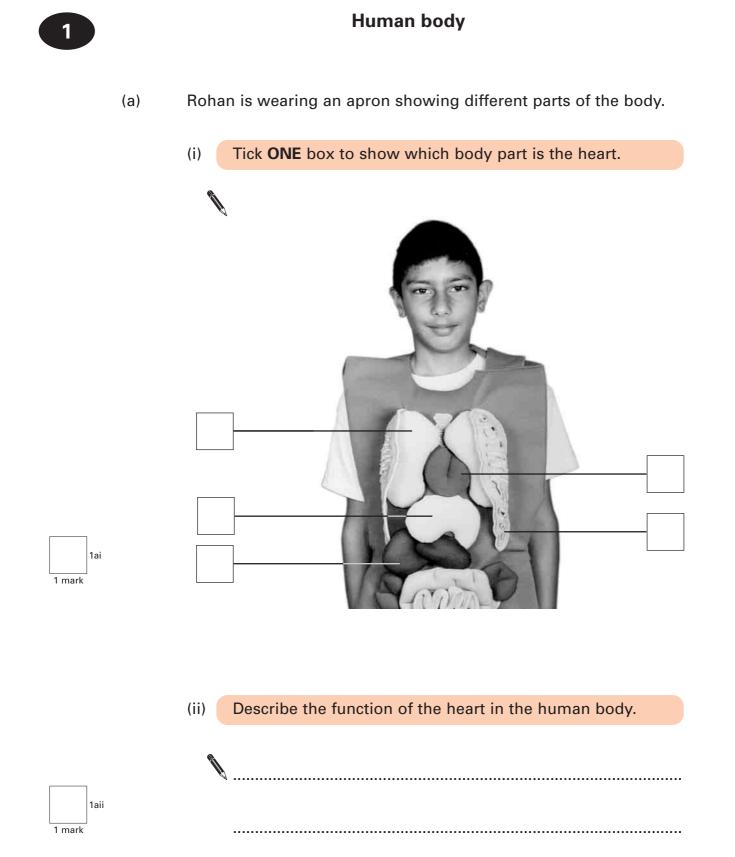
You have **45 minutes** for this test.

Answers

This pencil shows where you will need to put your answer.

For some questions you may need to draw an answer instead of writing one.

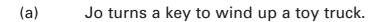
Some questions may have a box like this for you to write down your thoughts and ideas.



(b) Rohan thinks about other parts of the human body.

Which of these things would do most damage to the lungs ?	
Tick ONE box.	
drinking alcohol smoking cigarettes	
eating fatty food not exercising	1b 1 mark
(c) Why does brushing teeth help to reduce tooth decay?	
	 1c
	1 mark
(d) Complete each sentence using a word from the box below it.	
(i) The skeleton is moved by the whe the body moves.	en 1 mark
legs arms bones muscles	
(ii) The bones in the skeleton are so the	at 1 mark
they can support the body.	





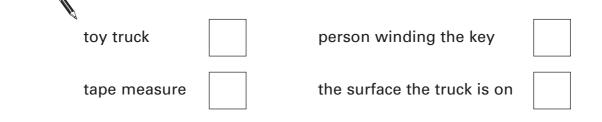
When she lets go of the key the truck moves forward on the carpet.



Jo wants to find out if the number of

complete turns of the key affects the distance the truck travels.

Tick **TWO** boxes to show which **two** things Jo **must** keep the same to make her test fair.

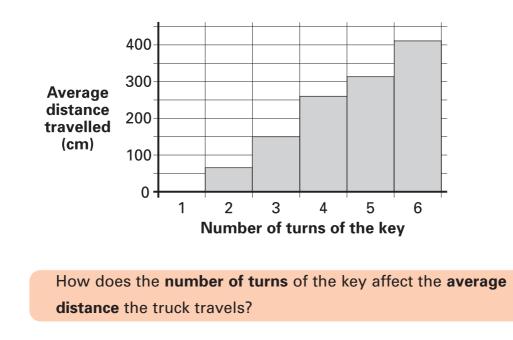


(b)

2a

1 mark

This graph shows Jo's results.



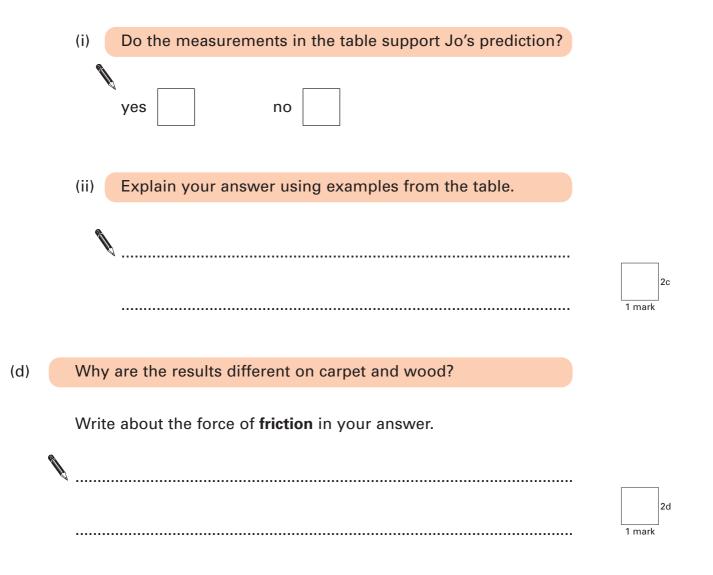
2b 1 mark

.....

Jo repeats the test on a wooden floor.
 She predicts, 'The truck will travel the same distance on the smooth wooden floor as on the carpet.'

The table shows how far the truck travels for different numbers of turns of the key.

Number of turns of key	Average distance travelled (cm on carpet on wood		
1	0	110	
2	66	242	
3	150	363	



(a) Fiona is in the garden. She wonders how she can find out the names of some of the plants.

Tick **ONE** box to show how Fiona could find out the names of the plants.

Fiona could use a...

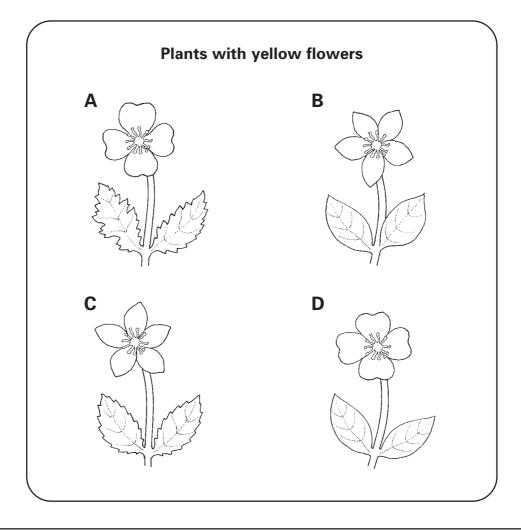
3

3a

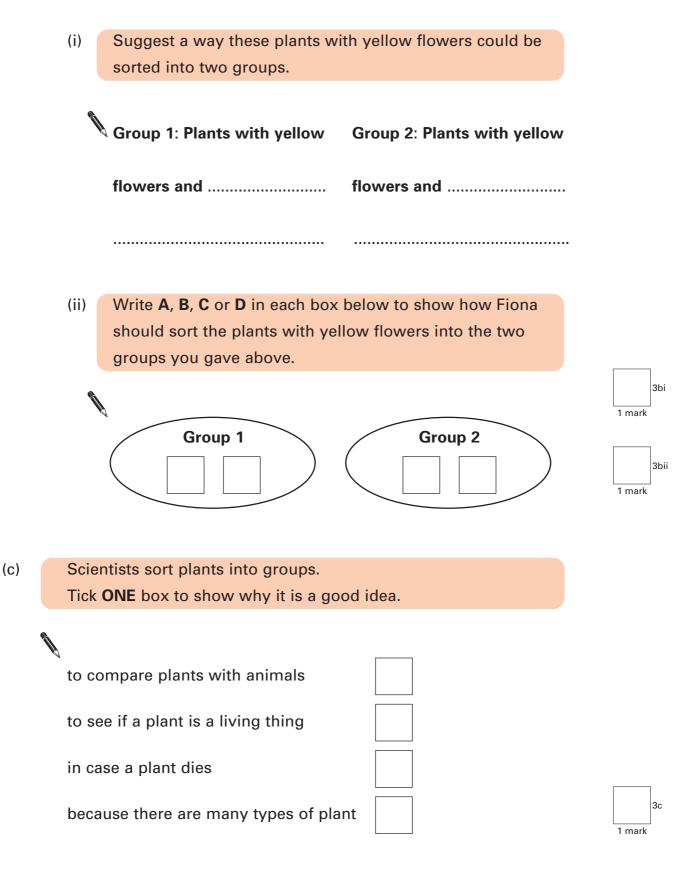
1 mark

food chain.	producer.	
fair test.	key.	

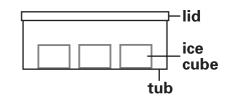
(b) Fiona sorts the plants into groups to help her find out their names.The plants in one of her groups all have yellow flowers.



Look at the group of plants with yellow flowers. Fiona needs to sort these plants into two groups.



Andrew has some tubs of ice cubes. He can put the tubs with ice into different bags.



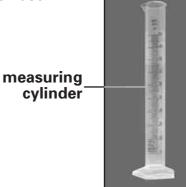
He wants to find out which bag is best at stopping the ice from melting quickly.



Plan an investigation to find out which bag is best at stopping the ice in the tubs from melting quickly.

You must measure your results with a stopwatch or a measuring cylinder or both. You have no other equipment.



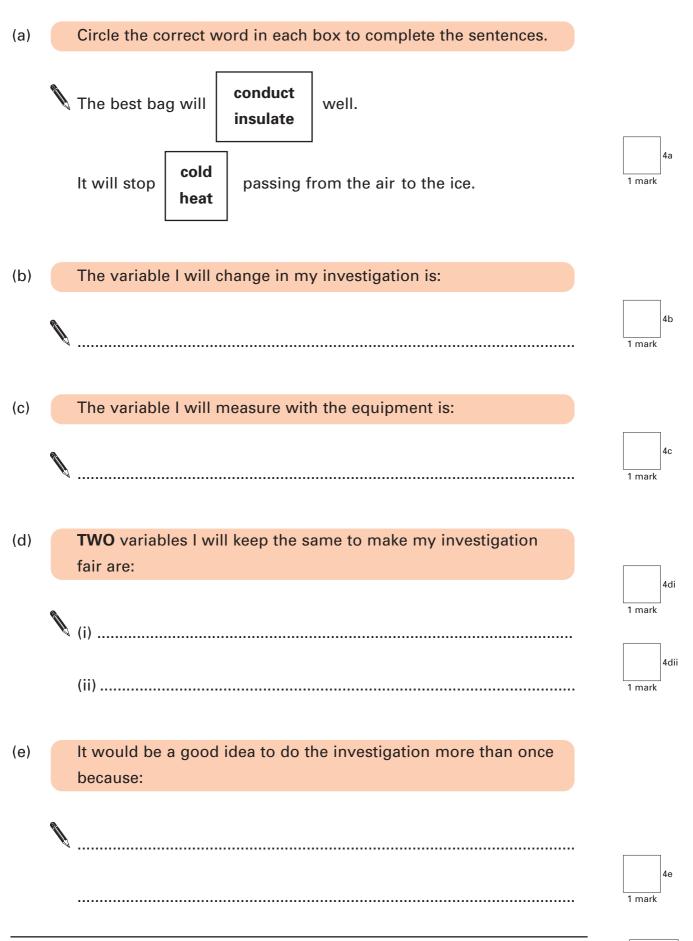


You can use the draft box below to plan your investigation.

Use your draft to help you complete the plan on the next page.



My plan for the investigation with ice.

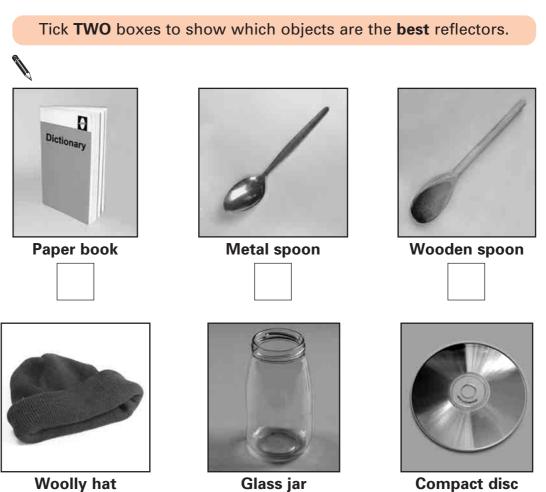


Torch light

(a) Sanna is investigating which materials are good reflectors of light.She shines a torch on different objects from a distance of 20 cm.



She looks at the objects to see how well each reflects light.



5ai

5aii

1 mark

1 mark

5

5b

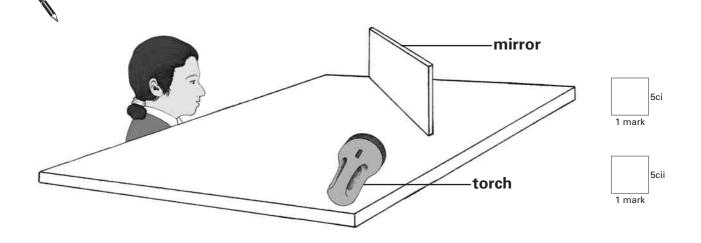
1 mark

(b) Tick ONE box to show which of Sanna's objects does not make a dark shadow. metal spoon wooden spoon

glass jar

(c) The picture below shows Sanna looking at the torch light reflected in a mirror.

Draw **TWO arrows** to show the direction the light must travel for Sanna to see light from the torch in the mirror.



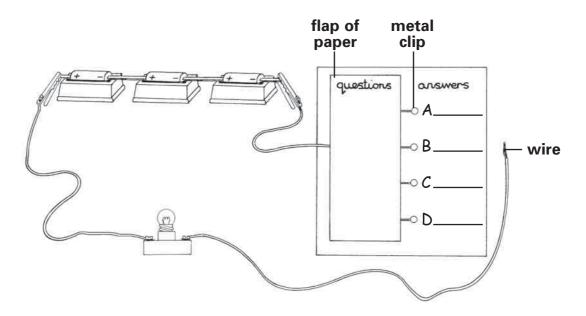
woolly hat

(a) Lori makes an electrical quiz board like the one below.

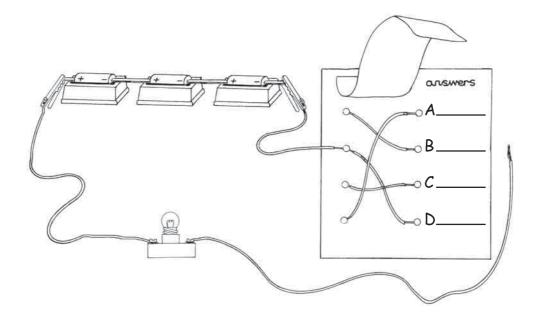
She writes a question on the flap of paper.

Then she writes four answers next to the letters A, B, C and D. Only one answer is correct.

When the wire touches the metal clip next to the correct answer, the bulb lights brightly.

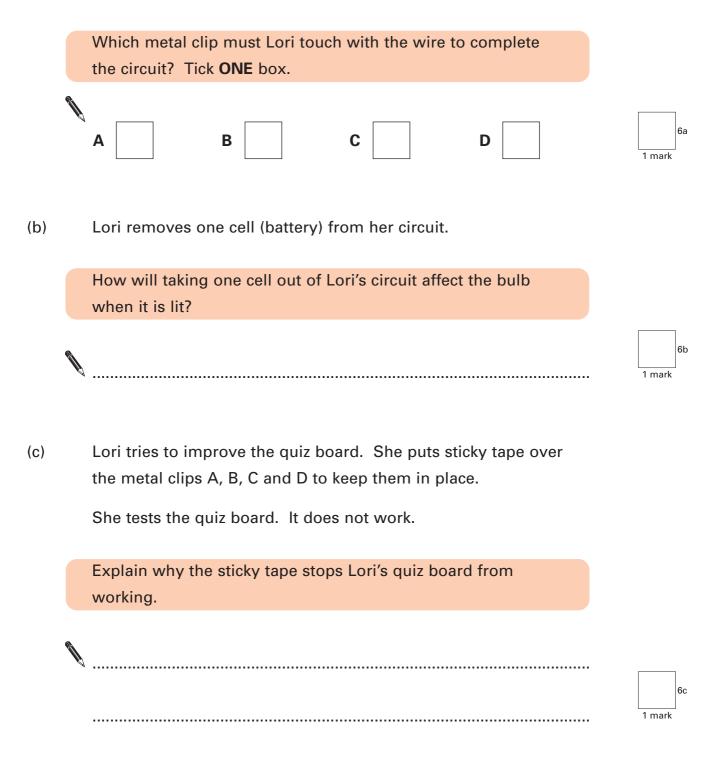


When she lifts the flap of paper, you can see how the circuit is made.

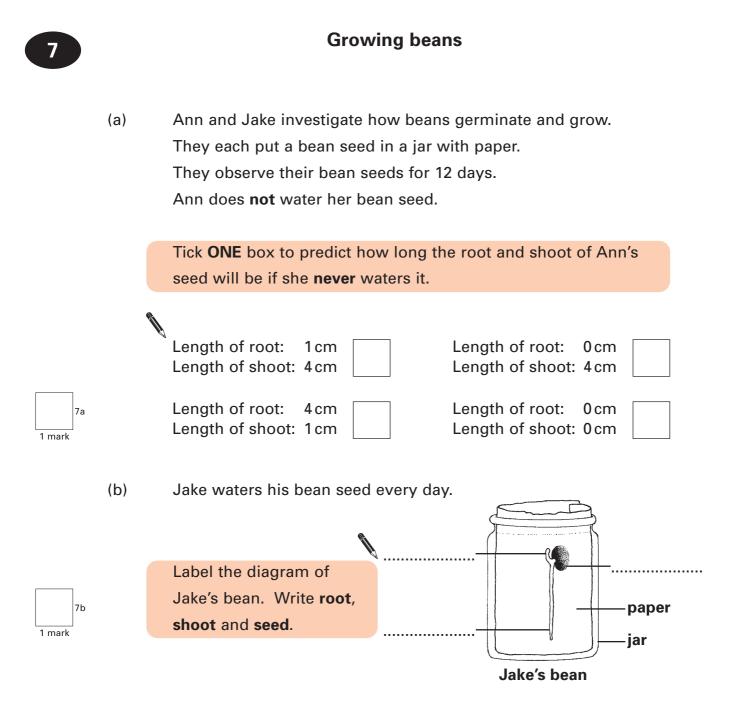


6

Look at the diagrams.







(c) Jake measures the lengths of the root and shoot and records these in a table.

Day	2	4	6	8	10	12
Length of root (cm)	0	0	2.5	6.6	10.2	13.0
Length of shoot (cm)	0	0	0	0	1.4	5.0

On which day did Jake **record** that his bean seed had germinated?

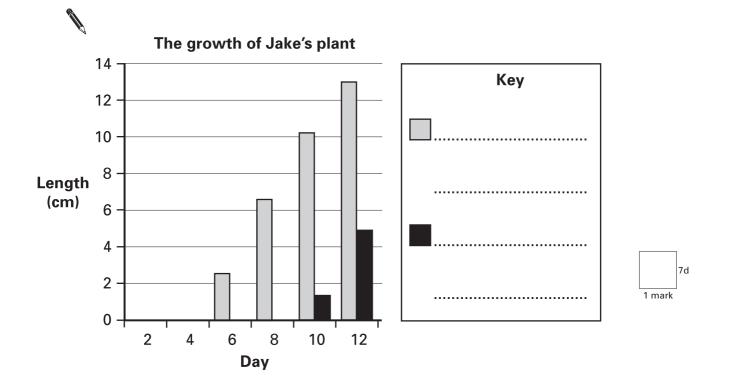
PrimaryTools.co.uk

7c

1 mark

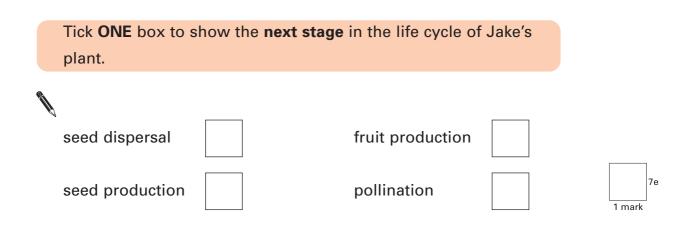
(d) Jake uses the information from his table to draw a bar graph.

Use the table to complete Jake's key to show what the grey and black bars on the graph mean.



(e) Jake puts his plant in soil.

After a few weeks, there is a flower on Jake's plant.



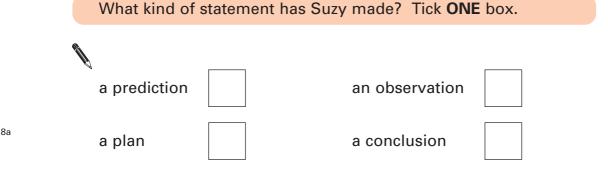
Block tower game

(a) Suzy and Peter are playing a game with a tower of wooden blocks.

They take turns to pull a block out of the tower and put the block back on top of the tower.

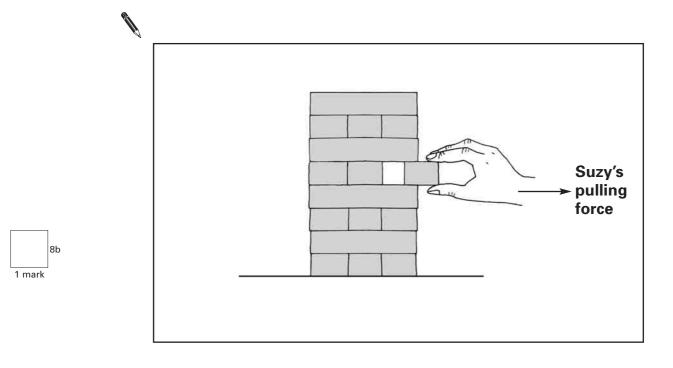
Suzy pulls a block out of the tower.

Suzy says, 'Some blocks are easier to pull out of the tower than others.'



(b) Some blocks are more difficult to pull out because of friction.

Draw **ONE** arrow on the picture to show the direction of **friction** on the block that Suzy pulls out of the tower.



8

1 mark

needed to pull the block out of the tower. 8c -----1 mark (d) The game ends when someone pulls a block out of the tower and the tower falls over. What is the name of the force that causes the blocks to fall? 8d 1 mark (e) The blocks are solid. Tick **ONE** box to show a property of **all** solids. All solids keep their All solids are heavy. shape. All solids are 8e All solids are hard. waterproof. 1 mark

Name the equipment that Suzy could use to measure the force

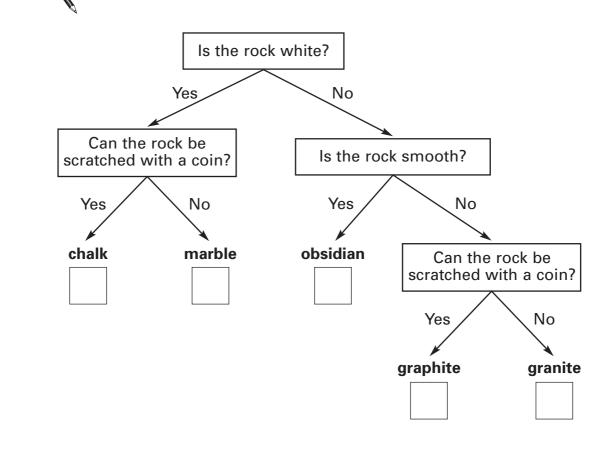
(c)

Tom has five different rocks.

He describes their properties in the table below.

Rock	Colour	Texture	Hardness Does a coin scratch it?
А	black, pink, grey	rough	no
В	white	smooth	yes
С	black	smooth	no
D	black	rough	yes
E	white	rough	no

Write **A**, **B**, **C**, **D** or **E** in each box on the sorting diagram below to identify the rocks.



9i

9ii

1 mark

1 mark

END OF TEST

Please check your answers

[Blank page]

[Blank page]

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