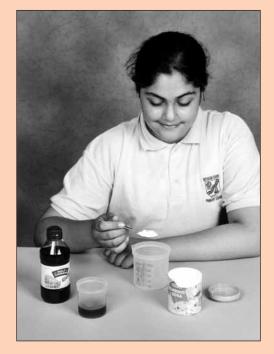
SCIE	NCE	
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TEST B		

3–5

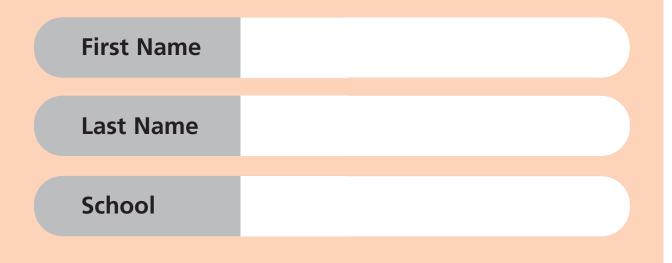
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5	
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TOTAL	
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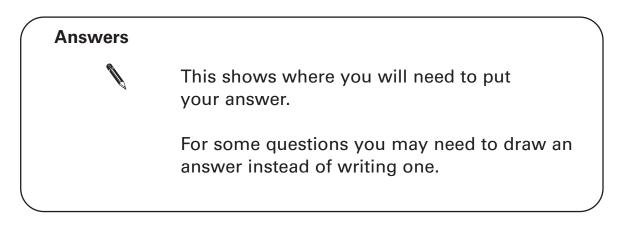
TEST B

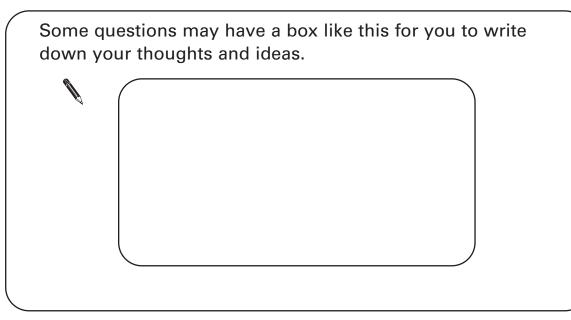


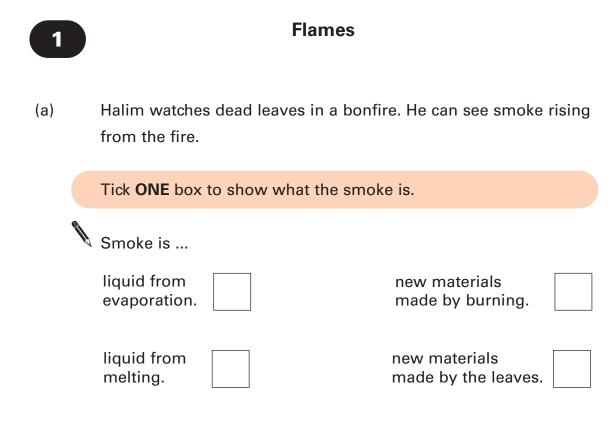
INSTRUCTIONS

Read this carefully.

You have 45 minutes for this test.







(b) The next day, Halim's teacher holds some materials over a candle flame.



Describe **ONE** thing in the picture that Halim's teacher has done to help make the investigation safe.

1 mark

1a

1 mark

1b

.....

(c) Halim records the results in a table.

Write **yes** or **no** in each row to show whether the changes are reversible.

Ŋ

Material	Does it burn?	Is the change reversible?
wood	yes	
bread	yes	

(d) Halim wants to know what other materials will burn.

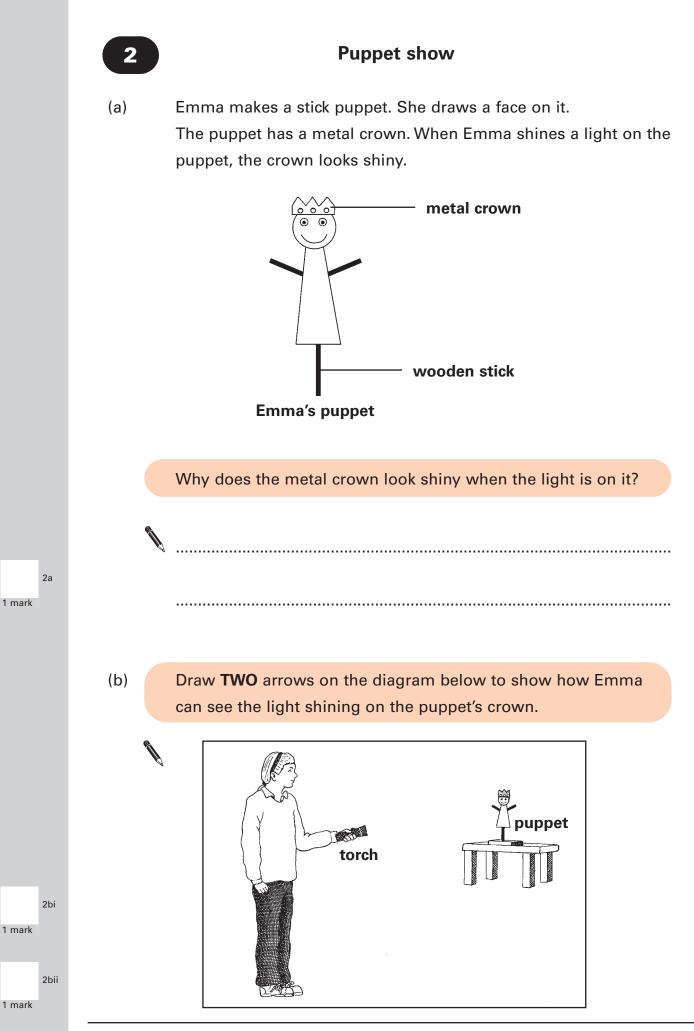
Tick the boxes next to all the materials below that burn in a candle flame.

One has been done for you.

Ø			
cardboard	~	cotton wool	1di
stone		kitchen foil	1 mark
newspaper		steel spoon	1dii 1 mark

1 mark

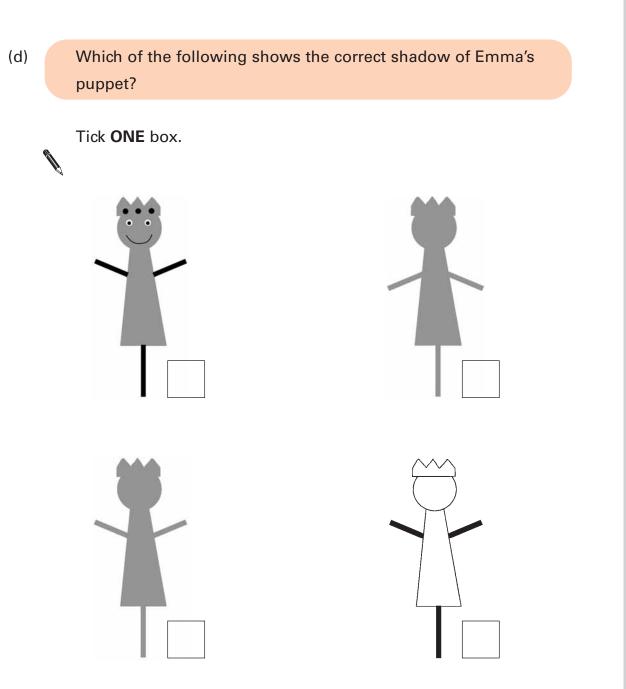
1c



(c) When the light shines on the puppet, Emma can see a shadow of the puppet on the wall behind.

Why does a shadow form behind the puppet when the light shines on it?

2c 1 mark





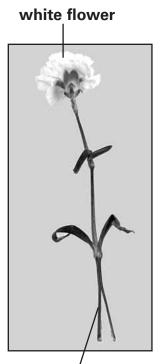
(a)

3

Some children set up an investigation as shown below.

They split part of a plant in half.

They put one half in water and the other half in water mixed with blue dye.



split part of plant



blue dye mixture

.....

water

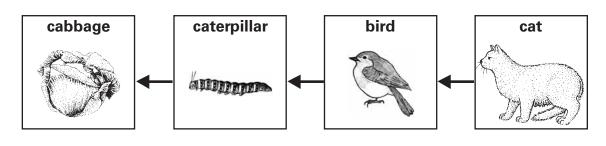
After some time, half of the flower turns blue.

What part of the plant did the dye travel through to get to the flower?

За

(b)		Predict what would ha flowers into red dye.	appen if the children	put a bunch of white		
	Ø					3b
					1 mark	
(c)		For which life process	is the flower impor	tant to the plant?		
		Tick ONE box.				
	×.	reproduction	growt	h		
		nutrition	move	ment	1 mark	Зс
(d)		Draw three lines to m	atch each part of the	e flower to its function.		
		Flower part		Function		
		stamen]	seeds are made here]	
		0/20/]	produces the pollen	1	
		ovary]			
		stigma]	pollen collects here] 1 mark	3d

Some children draw a food chain about living things they see in (a) the garden. There is a mistake in their food chain.



What is the mistake in their food chain?

(b) The children correct their food chain. They make a table showing if each animal in the food chain is a predator, prey or both.

> Tick **ONE** box in each row of the table to show whether each animal in the food chain is a predator, prey or both.

4	Animal	Predator	Prey	Both
	caterpillar			
	bird			
	cat			

(c)

4a

4bi

4bii

4c

1 mark

1 mark

1 mark

1 mark

Which word best describes the function of the cabbage in the food chain?



organism

consumer



producer



4

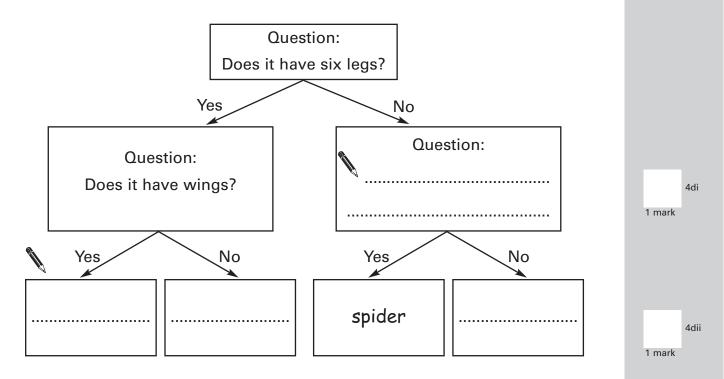
(d) The children make a table about some other animals they found.

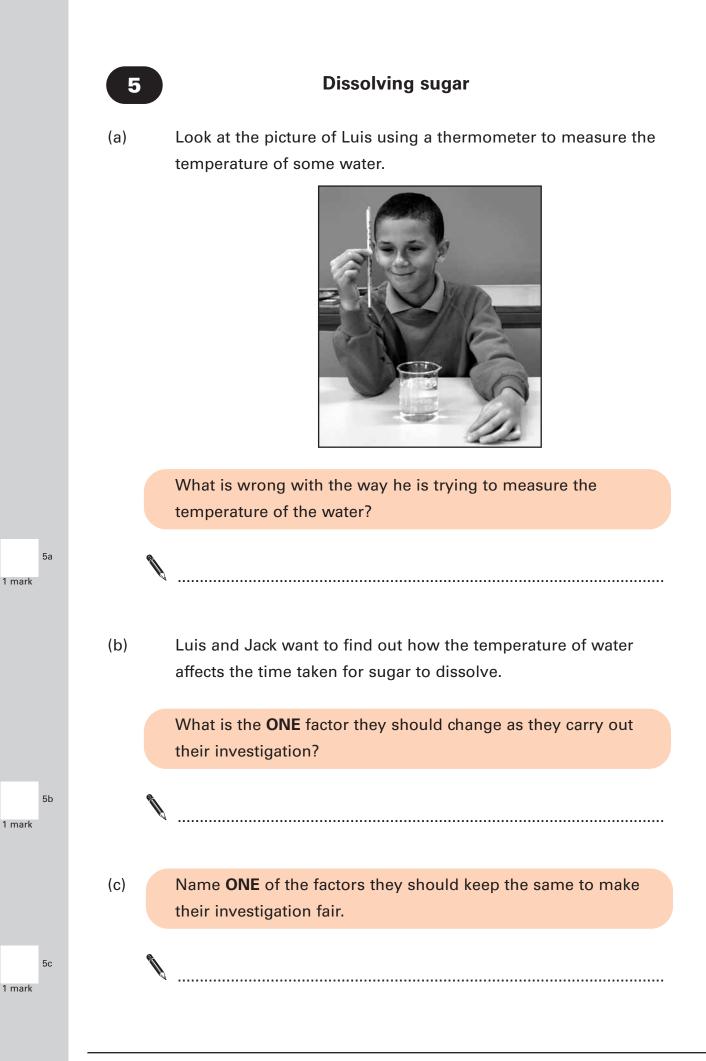
Animal	Where they found it	Number of legs	Number of wings
mayfly	near the pond	6	4
spider	in the grass	8	0
female glow-worm	in the grass	6	0
duck	near the pond	2	2

They use their table to make a key.

- (i) Use the table above to help you write in the missing question on the key below.
- (ii) Write the name of each animal from the table in the correct box on the key below.

One has been done for you.





They carry out their investigation 3 times and record their results. (d)

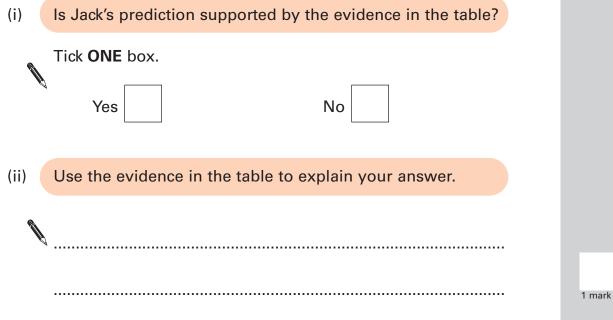
Temperature of water (°C)	Time (minutes)		
	Test 1	Test 2	Test 3
30	10	9	11
40	8	12	9
50	7	7	8
60	6	6	7

Time taken for sugar to dissolve

For which temperature does one of the results seem unlikely?

°C.....

Jack predicted that sugar will dissolve more quickly when the water (e) is hotter.



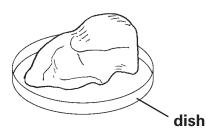
5d

1 mark

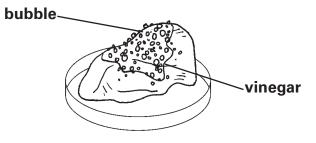
5e

 Sometimes rain mixes with pollution in the air to form acid rain.
Some children want to find out what happens when acid rain falls on rocks.

Vinegar can be used to show the effects of acid rain. The children add vinegar to chalk rock. The pictures below show what happens.



Chalk rock

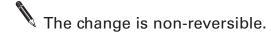


Chalk rock and vinegar

Bubbles are produced.

The bubbles evaporate.

Write true or false next to each sentence below.



.....

.....

1 mark

6a

6

Write **solid**, **liquid** or **gas** next to each material in the table.

(b)

Material	Solid, liquid or gas?
inside the bubble	
vinegar	
chalk rock	

(c) The children test more rocks. The table below shows their results.

Rock	Are bubbles produced when vinegar is added?
granite	no
sandstone	no
limestone	yes
slate	no
pumice	yes

Look at these pictures of a statue. The statue is in a city that has acid rain.



Statue when new

.....



Same statue after 200 years

Use the table to name **ONE** rock that this statue could have been made from.

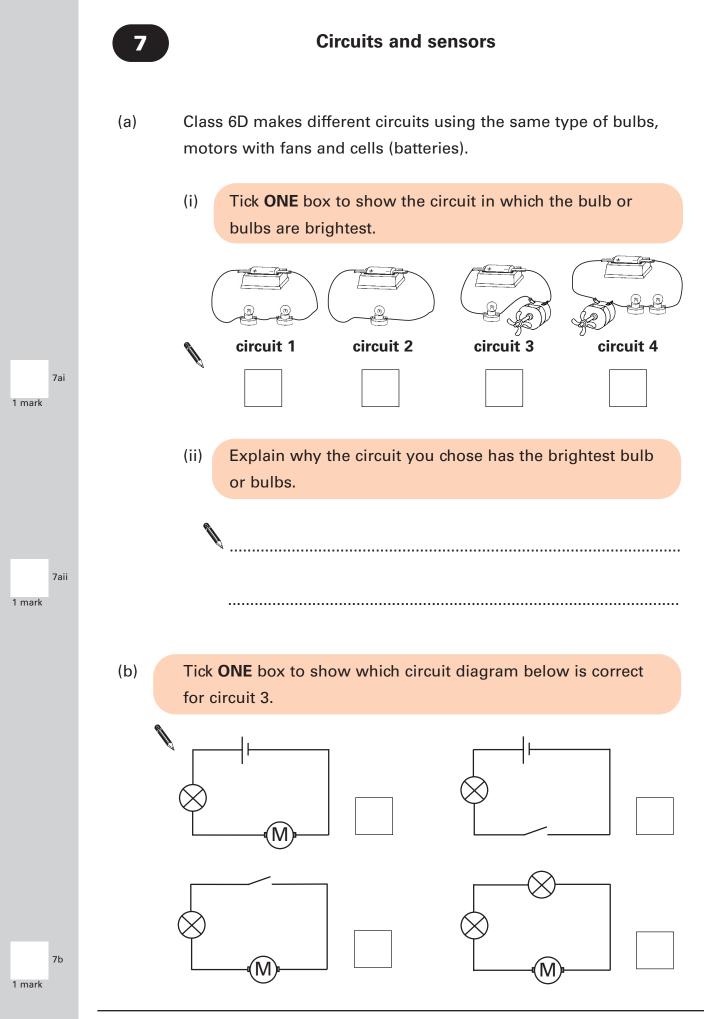
6c

6b

1 mark

1 mark

Total



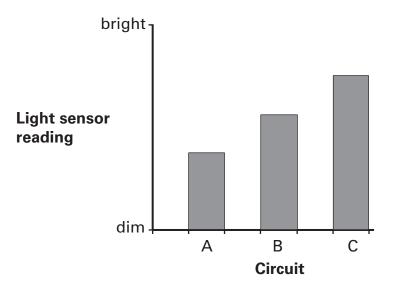
(c) Each of the circuits made by class 6D has one cell.

Complete the sentence below to explain the effect on the bulbs of adding a second cell to circuit 1.

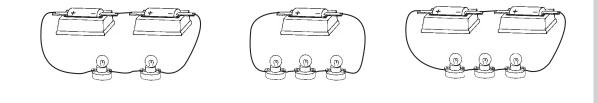
The bulbs will.....

(d) Class 6D made three new circuits. They used a light sensor to measure the brightness of one of the bulbs in each circuit.

The sensor gave the results on the graph below.



Write **A**, **B** or **C** next to each circuit below to show which circuit gave each light sensor reading on the graph.

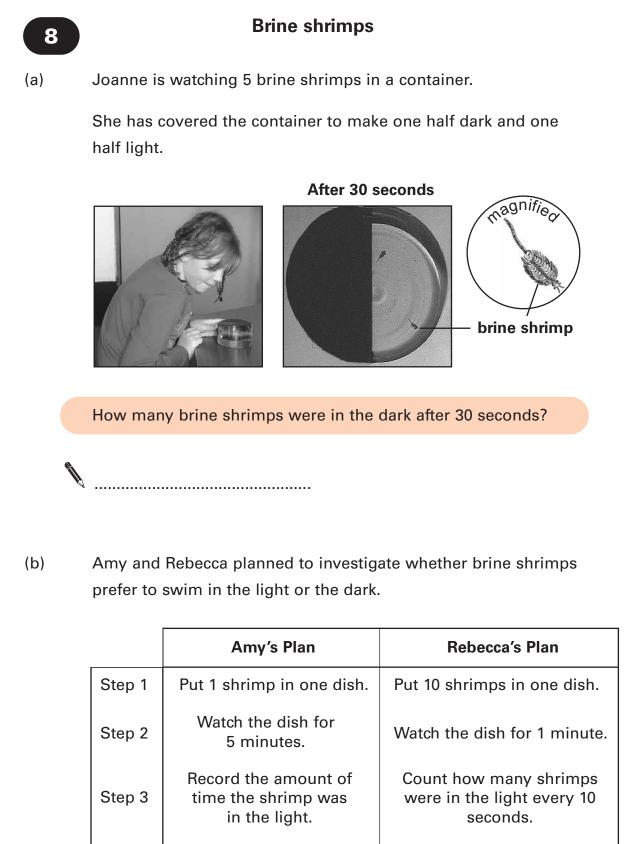


circuit circuit circuit

1 mark

7c

1 mark



8a

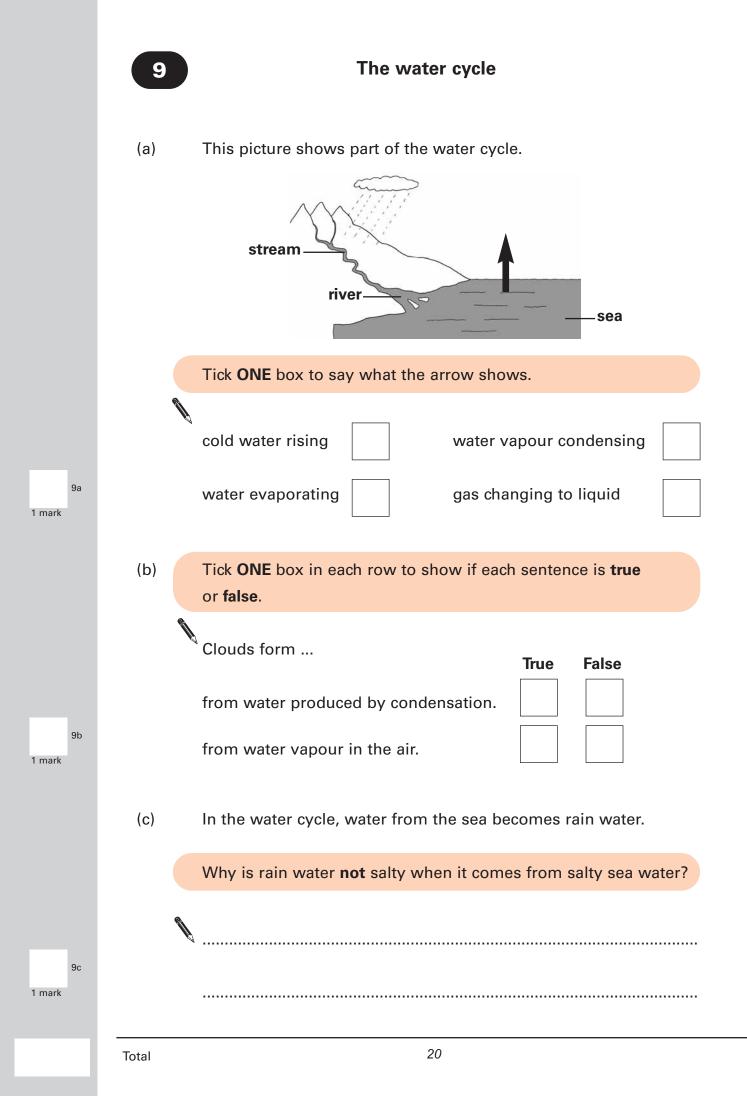
1 mark

18

Step 4

Look at Amy's plan.

		What measurements should Amy compare to decide whether shrimps prefer light or dark?	
			1 ma
(c)		Look at Rebecca's plan.	
		How did Rebecca work out how many brine shrimps were in the dark each time she looked?	
	Å		
			1 m
(d)		Look at Amy's and Rebecca's plans.	
		(i) Which do you think is the better science plan?	
		Tick ONE box.	
		Amy's Rebecca's	
		(ii) Explain why.	
			1 m



END OF TEST

Please check your answers

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QCA key stage 2 team, 83 Piccadilly, London W1J 8QA

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