Henry Park Primary School
Primary Six Science
2025 Term Review 1

Name: _____ (Class: 6 ___ Parent Signature: _____

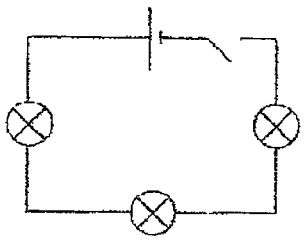
Booklet A (28 marks)

For each question from 1 to 14, four options are given. One of them is the correct answer.

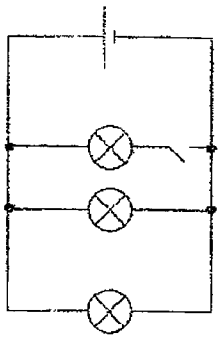
Make your choice (1, 2, 3 or 4). Shade the correct oval (1, 2, 3 or 4) on the **Optical Answer Sheet**.

1 Four students were asked to draw a circuit showing three bulbs in parallel, a battery, and a switch that controls all three bulbs.

Which student is correct?



(1)



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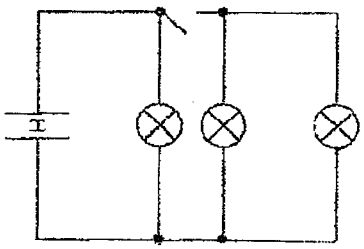

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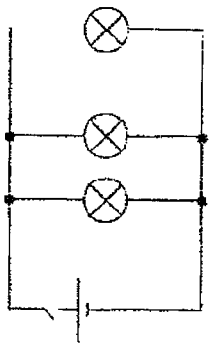
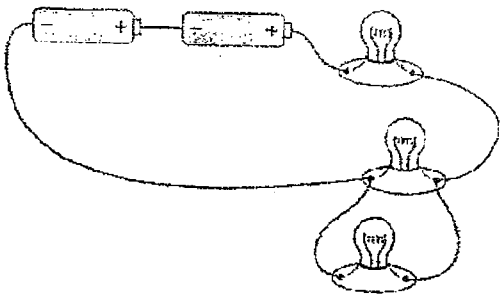
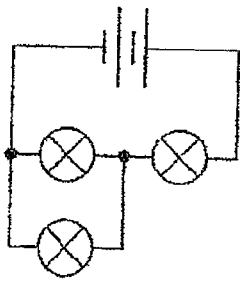


(4)

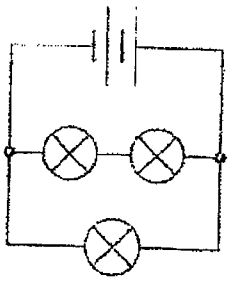
2 Ram sets up a circuit containing two batteries and three lamps as shown.



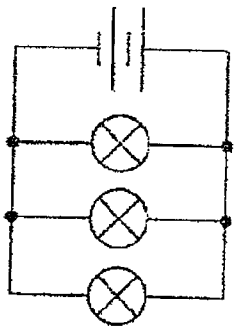
Which of the following is the correct circuit diagram for this arrangement?



(1)



(2)



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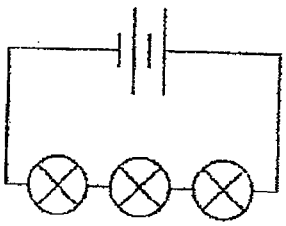
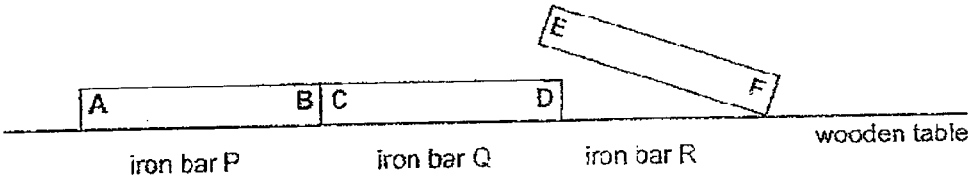


(4)

3 Jenny arranged three similar iron bars on a wooden table as shown below.

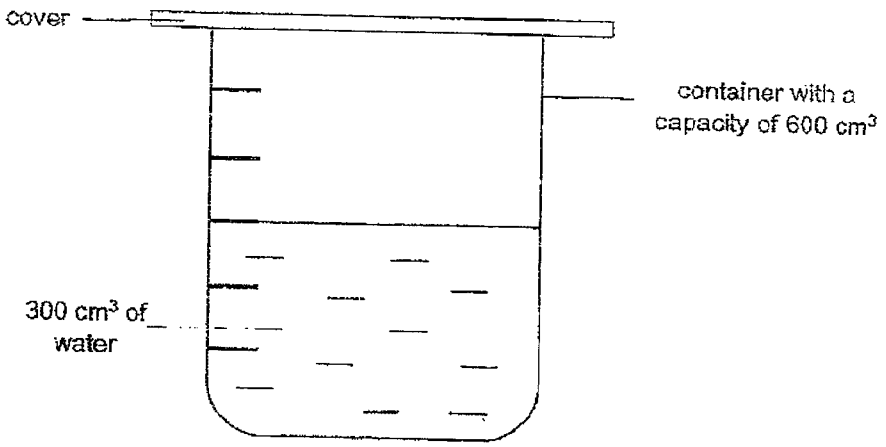


End F of iron bar R was brought close to each end of the other two iron bars.

Based on the information given, which of the following is likely to be correct?

	Result when end F was brought near			
	End A	End B	End C	End D
(1)	attract	repel	attract	repel
(2)	attract	attract	repel	attract
(3)	attract	repel	repel	attract
(4)	repel	attract	attract	repel

4 Jamie prepared a set-up as shown in the diagram below.



She then placed 50 cm^3 of marbles, pumped in 100 cm^3 of air into the container and sealed it.

Which of the following statement(s) is / are possible observations made by her?

A The mass of the set-up will not change.

B The total volume of air in the set-up will increase.

C The total volume of water in the set-up will increase.

D The marbles will take up 50 cm^3 of space in the set-up.

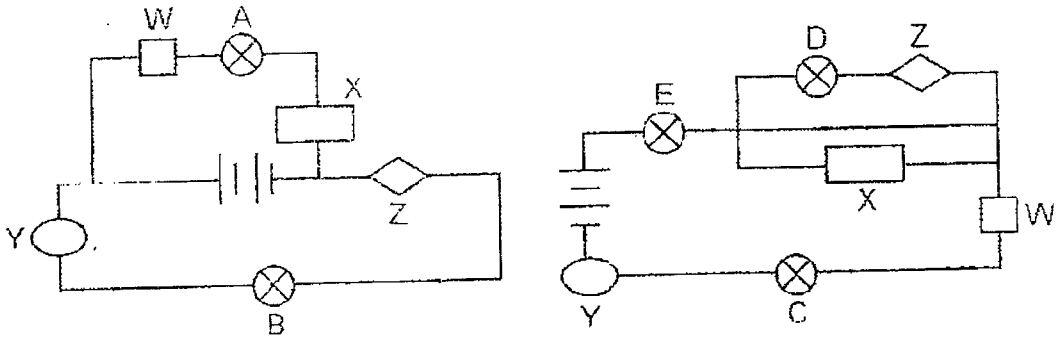
(1) D only

(2) A and C only

(3) A, B and D only

(4) B, C and D only

5 Huimin set up the following electrical circuits to find out if materials W, X, Y and Z were electrical conductors.



She recorded her observations in the table below.

Bulb	Did the bulb light up?
A	No
B	Yes
C	Yes
D	Yes
E	Yes

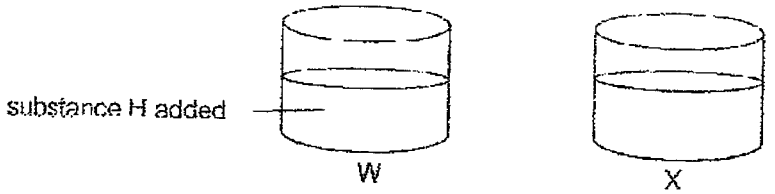
Based on the observations above, which materials are electrical conductors or electrical insulators?

	Electrical conductors	Electrical insulators
(1)	X	W, Y, Z
(2)	Y, Z	W, X
(3)	W, Y	X, Z
(4)	W, Y, Z	X

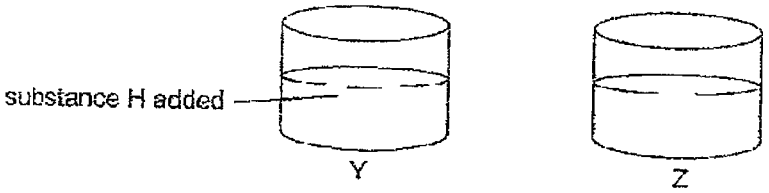
6 Rani prepared four containers of water labelled W, X, Y and Z. She added substance H to W and then placed W and X in the freezer for an hour.

She then added substance H to Y and then heated Y and Z for twenty minutes. The diagrams below show what she observed about the containers of water.

After placing in freezer for an hour



After being heated over a flame for twenty minutes

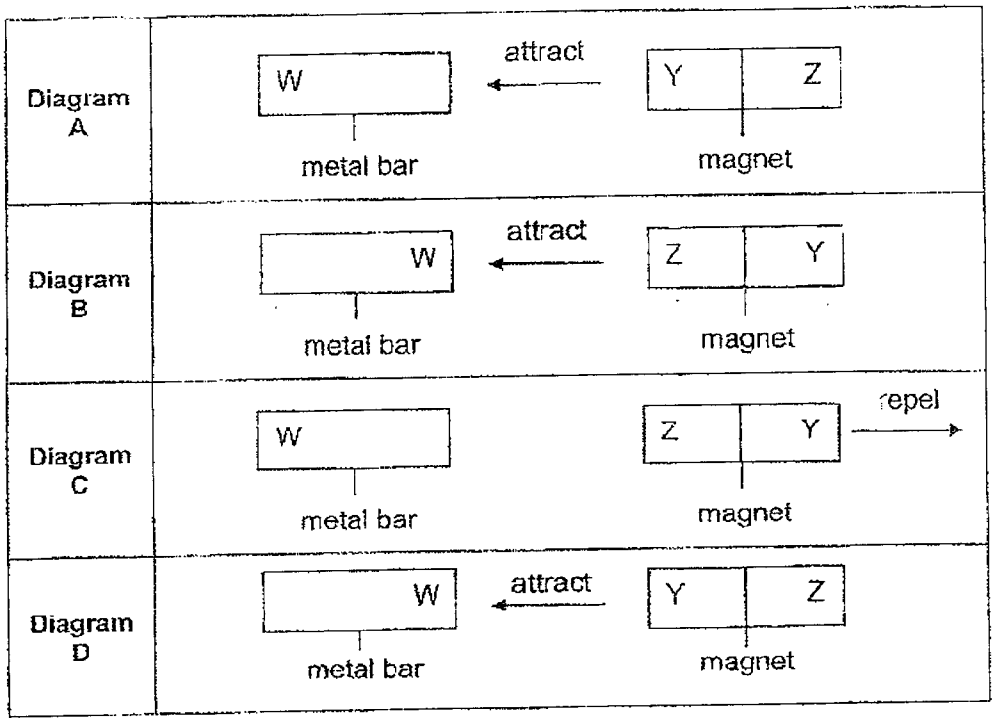


Based on the above experiment, which of the following statements are correct about the freezing point and boiling point of water when substance H is added?

A The boiling point of water increases.
B The boiling point of water decreases.
C The freezing point of water increases.
D The freezing point of water decreases.

(1) A and C only
(2) A and D only
(3) B and C only
(4) B and D only

7 Lisa wanted to find out if a metal bar is a magnet. She drew four diagrams A, B, C and D as shown below.



Which pair of diagrams allows her to confirm that the metal bar is a magnet?

(1) A and B

(2) A and D

(3) B and C

(4) C and D

8 The table below shows the properties of a substance at different temperatures.

Temperature (°C)	Has fixed volume?	Has fixed shape?
0	Yes	Yes
100	Yes	Yes
150	Yes	No
250	No	No

Which of the following statements about the substance is / are definitely correct?

A. It is water.

B. It melts at 150°C.

C. It is a gas at 250°C.

D. Its freezing point is lower than 150°C.

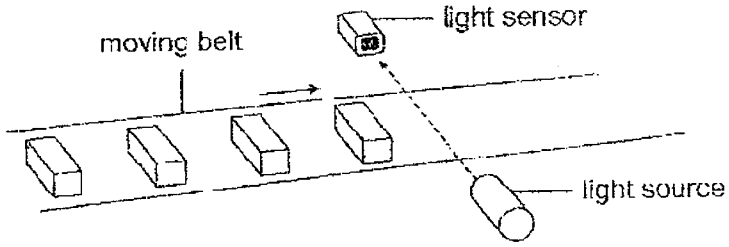
(1) A and D only

(2) B and C only

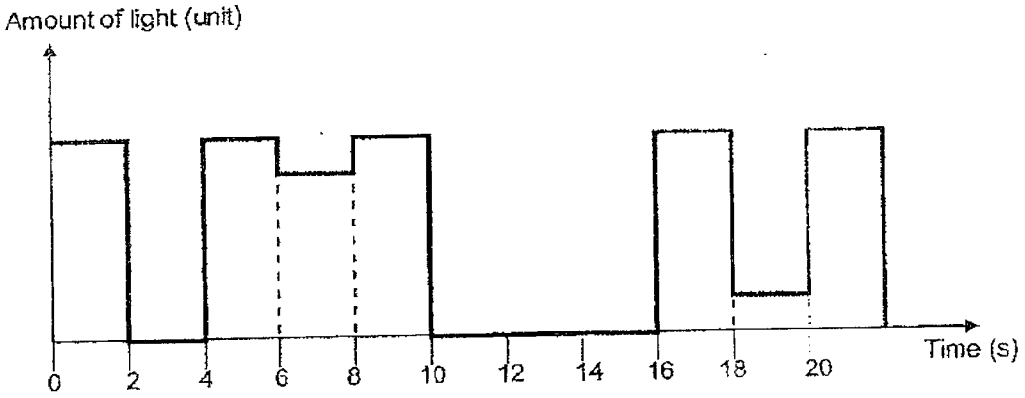
(3) C and D only

(4) B, C and D only

9 The set-up below uses a light sensor to count the number of objects on a moving belt. The objects are of the same size.



The graph below shows the data recorded when the objects passed the light sensor within a period of 20 seconds.



Based on the graph above, which of the following statement(s) is/are correct?

A Five objects moved past the light sensor.

B The belt did not move at a same speed.

C Two of the objects were placed further apart.

D All the objects allowed same amount of light to reach the sensor.

(1) B only

(2) A and C only

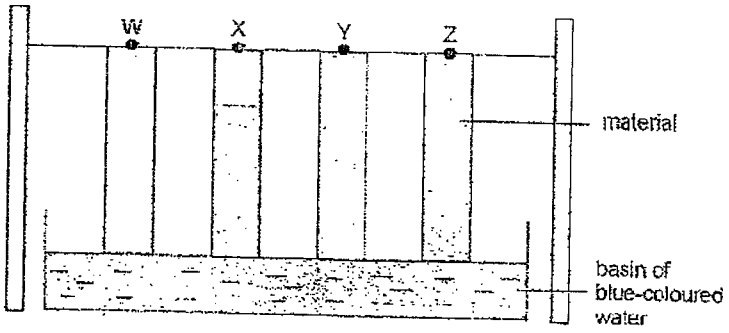
(3) B and D only

(4) A, C and D only

10 Christine conducted an experiment to compare how well different types of materials absorb water.

She placed 4 strips of materials, W, X, Y and Z, of identical size, into a basin of blue-coloured water for 10 minutes.

Christine recorded her observations as shown in the diagram below.



Based on the information above, which of the following shows the most suitable material to make a raincoat, a towel and a cup?

	Raincoat	Towel	Cup
(1)	Z	W	Y
(2)	W	X	Z
(3)	Y	X	Z
(4)	W	Z	W

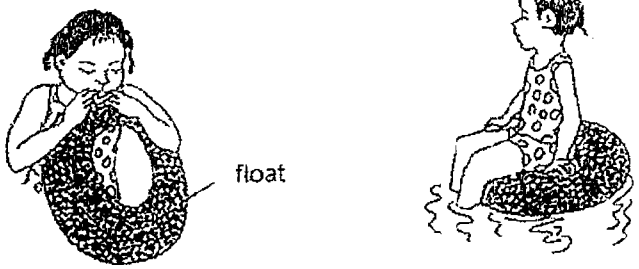
11 Wenhao went for a run at the track.

After the run, he perspired and felt even colder when it became windy.

Which of the following best explains why he felt colder when it became windy?

(1) His perspiration loses heat to the body and evaporates.
(2) His perspiration gains heat from the body and evaporates faster.
(3) His perspiration gains heat from the wind and evaporates faster.
(4) His perspiration loses heat to the surrounding wind and evaporates faster.

12 The diagrams below show Devi blowing air into a float and then sitting on it in water.



Based on what Devi has done, which of the following shows correctly the properties of the material used to make the float?

	Properties			
	light	waterproof	flexible	strong
(1)	✓		✓	
(2)		✓	✓	✓
(3)	✓		✓	
(4)	✓	✓		✓

13 Four metal pins A, B, C and D were fixed onto a wooden board as shown in Figure 1. Figure 2 shows two batteries and a bulb connected to two wires X and Y.

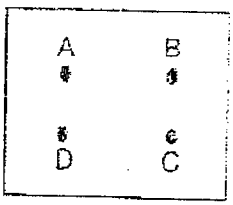


Figure 1

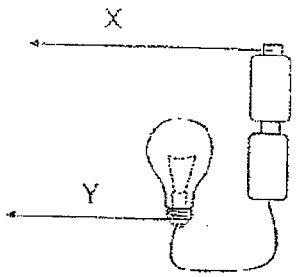


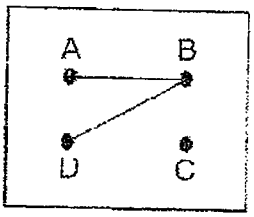
Figure 2

Ravi connected some but not all the pins with wires. He then connected X and Y across different pairs of pins. He recorded his results in the table below.

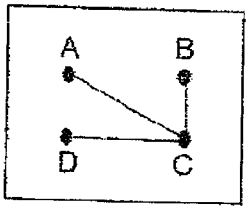
Pin connected to X	Pin connected to Y	Did the bulb light up?
A	B	Yes
B	C	No
C	D	No
D	A	Yes

Which one of the following correctly shows the connections tested by Ravi?

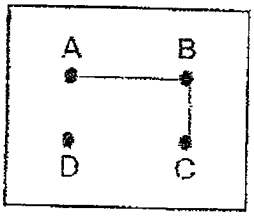
(1)



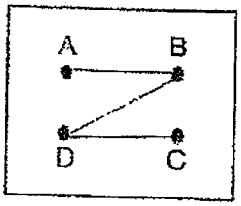
(2)



(3)

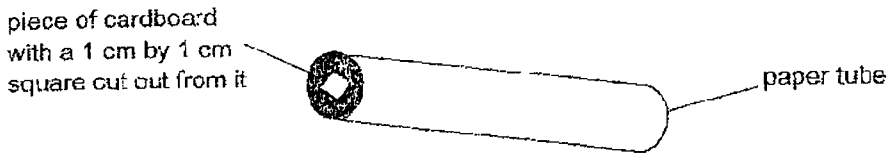


(4)

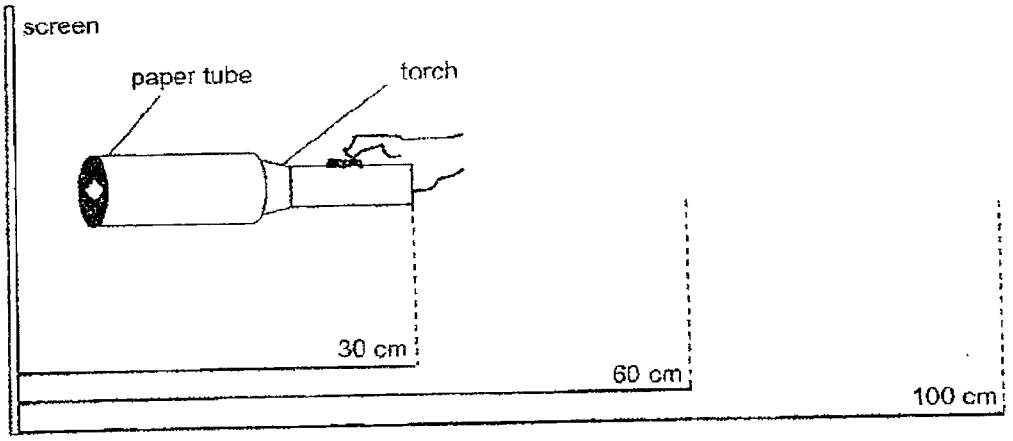


14 Anna made a toy.

First, she cut out a square of dimension 1 cm by 1 cm from a piece of cardboard and taped the piece to one end of a paper tube.



Next, she fixed a torch onto the other end of the paper tube. She then moved the toy to different distances, in front of a wall in a completely dark room and switched the torch on as shown in the diagram below.



A shadow was cast on a screen and Anna made the following statements.

A The shadow formed on the wall was bigger when the toy was nearer to the screen.
B The size of the shape formed on the screen was the same at 30 cm and 60 cm.
C At a distance of 60 cm, the shape formed on the screen was smaller than at a distance of 100 cm.

Which of the statement(s) about the shadow formed on the wall is / are correct?

(1) A only
(2) C only
(3) B and C only
(4) A, B and C

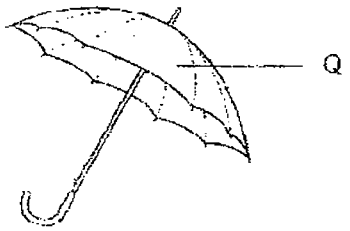
Henry Park Primary School
Primary Six Science
2025 Term Review 1

Name: _____ Class: 6 Parent Signature: _____

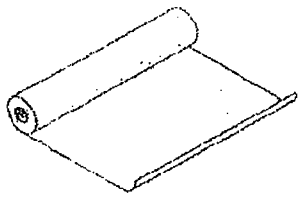
Booklet B (22 marks)

For each question from 15 to 20, write your answers in the spaces provided.

15 Andy wants to buy an umbrella to use on rainy days. The diagram shows part Q of the umbrella.



Andy has material S shown in the diagram below.



Material S

He wants to know if material S is suitable to make part Q of an umbrella.

(a) Besides flexibility, name two other properties that Andy needs to test to confirm if material S is suitable to make part Q. [2]

(i) _____

(ii) _____

(b) Explain your answer in (a) (i). [1]

_____

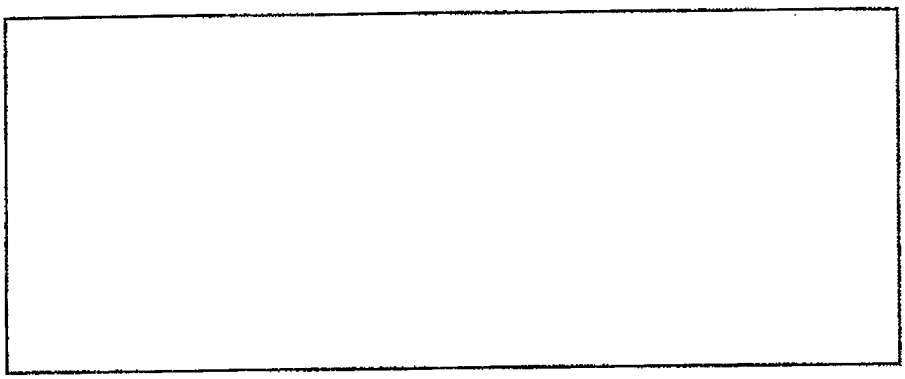
_____

Question 15 continued

Choose the property you have mentioned in (a) (ii).

(c) Describe how Andy could test material S for the property. [2]

Or you may **draw** how the set-up looks like for testing the material.



16 Dani conducted an experiment to study how the arrangements of bulbs in a circuit affected their brightness. He used all of the apparatus for his experiment:

- six identical bulbs
- four identical batteries
- wires

After setting up his experiment, he discovered that when one bulb fused, the remaining bulbs in set-up A did not light up, while the remaining bulbs in set-up B still remain lit.

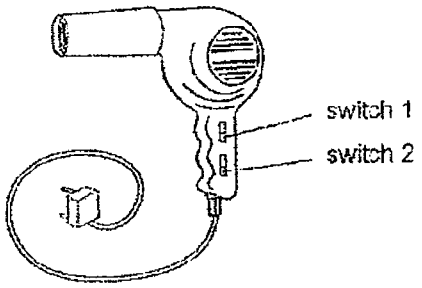
(a) In the space provided below, draw a diagram (using circuit symbols) for each of the set-ups that he constructed to conduct his experiment. He conducted both experiments at the same time. [2]

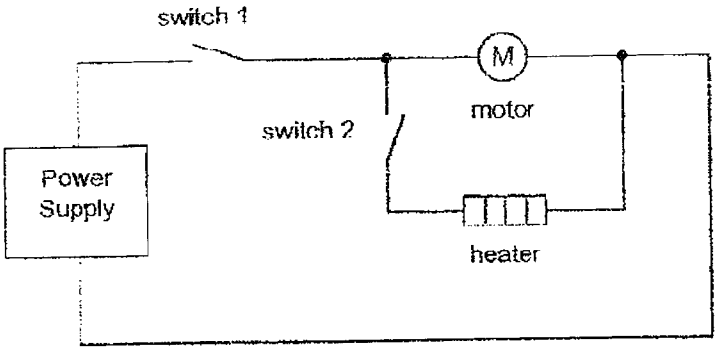
Set-up A	Set-up B

Question 16 continued

The diagram below shows an electric hairdryer.

Dani uses the hairdryer to dry his wet hair. Switches can be turned on and off for cold and hot air to be blown out.



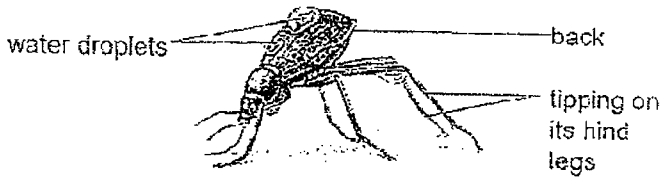


(b) Using the circuit diagram above, describe how Dani uses switches 1 and 2 to get hot and cold air from the hairdryer. [2]

To get hot air:

To get cold air:

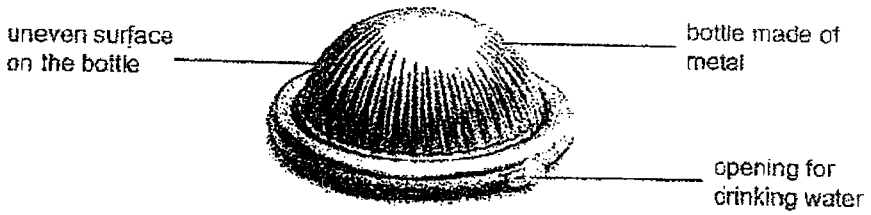
17 Organism W lives in the desert. The temperature in the desert can range from as low as 10°C at night to as high as 45°C in the day.



Organism W

(a) In the morning, water droplets are found on the back of organism W. How are the water droplets formed? [2]

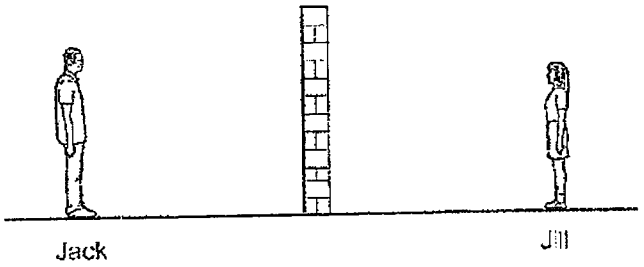
The diagram shows a bottle which is designed to obtain water from the surrounding air. The dome-shaped design resembles the body of organism W.



The bottle is placed outside in the evening, allowing the steel body to cool. In the morning, when the surrounding air is warmer, the dew drops are formed and collected in the bottle.

(b) How does the uneven surface of the bottle help to collect more water? [1]

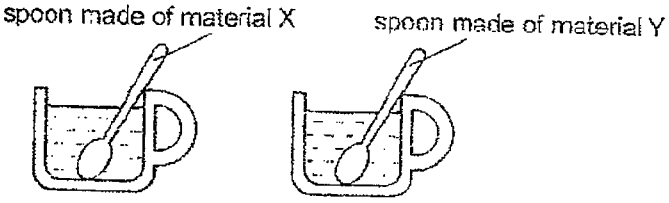
18 Jack and Jill were standing outdoors on either side of a wall during the day.



From where he was standing, Jack was not able to see Jill. Explain why. [2]

19 Swee Heng and Rahimah wanted to find out how the type of material affects the rate of heat transfer.

Their experimental set-up is shown in the diagrams below.



Two identical cups of hot water at 98°C

The table below shows Swee Heng's results.

	Temperature of hot water in the cup (°C)	
	spoon made of material X	spoon made of material Y
after 3 minutes	89	94

The table below shows Rahimah's results.

	Temperature of hot water in the cup (°C)	
	spoon made of material X	spoon made of material Y
after 3 minutes	89	94
after 6 minutes	82	91
after 9 minutes	75	86

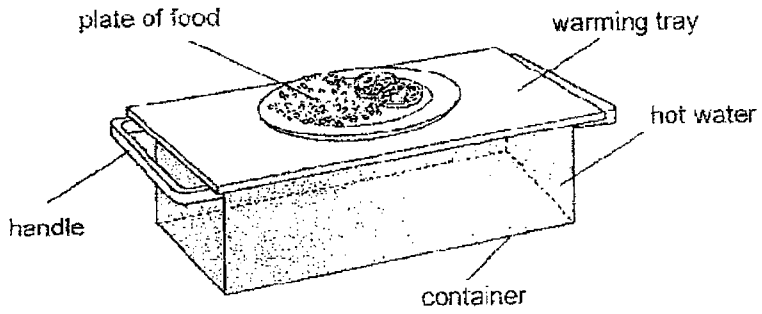
(a) Explain how Rahimah's results give a better comparison of how quickly heat passes through the materials X and Y. [1]

_____

_____

Question 19 continued

The diagram shows a food warmer. The food warmer contains hot water. Plates of food are placed on top of the warming-tray.

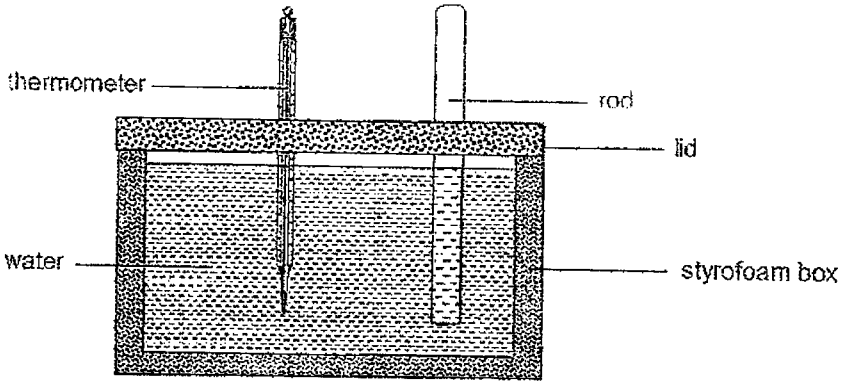


(b) Based on the results of Rahimah's and Swee Heng's experiments, state which material, X or Y, is more suitable to make the warming tray. [2]

Explain your answer.

(c) Based on the results from Rahimah's and Swee Heng's experiments, explain why material X is not suitable to make the container. [2]

20 David inserted a rod of material W and a thermometer into a styrofoam box as shown. He poured water at 98°C into the styrofoam box and covered the box with a lid.



After 10 minutes, the temperature of the water was recorded. David repeated the experiment with similar sized rods of different materials, X, Y and Z.

He recorded his results as shown in the table below.

Material	Temperature of water	
	at the start (°C)	after 10 minutes (°C)
W	98	86
X	98	90
Y	98	74
Z	98	85

(a) State the aim of the experiment. [1]

(b) Why did the temperature of water decrease after each rod was inserted? [1]

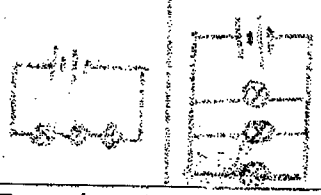
(c) Explain why the temperature of water at the start of the experiment has to be the same when different rods were used. [1]

YEAR : 2025
LEVEL : PRIMARY 6
SCHOOL : HENRY PARK PRIMARY SCHOOL
SUBJECT : SCIENCE
TERM : TERM REVIEW 1

(BOOKLET A)

Q1	4	Q2	1	Q3	2	Q4	1	Q5	4
Q6	2	Q7	3	Q8	3	Q9	1	Q10	4
Q11	2	Q12	2	Q13	1	Q14	2		

(BOOKLET B)

Q15	a)	i) Waterproof ii) Strength
	b)	When rainwater falls on Part Q, it will not break easily.
	c)	Place weights one at a time on Material S until it breaks.
Q16	a)	Set-up A Set-up B 
	b)	To get hot air : Dani should close switch 1 and 2. To get cold air : Dani should only close switch 1.
Q17	a)	At night the surrounding air is cooler. Warm water vapour in the air touches its cooler back and condense.
	b)	The uneven surface of the bottle increases the exposed surface area.
Q18		Jill could not reflect light into Jack's eyes because the wall blocks the light from travelling into Jack's eyes.
Q19	a)	She conducted the experiment with more time intervals.
	b)	X is a better conductor of heat as the temperature of hot water in the cup made from Material X decreases faster. Thus the warming tray will conduct heat from the hot water to the food more quickly.
	c)	X will conduct heat from the water to the surrounding faster, so less water will be conducted to the warming tray and then to the food leaving the food colder.
Q20	a)	To see if the type of material affects the rate of heat transfer.
	b)	The water loses heat to the rod.
	c)	To ensure a fair test, the materials of the rods should be changed.