604 / 8
SA2

HENRY PARK PRIMARY SCHOOL

2024 PRELIMINARY EXAMINATION

STANDARD SCIENCE

PRIMARY SIX

BOOKLET A

Name: _____ ( )

Class: Primary 6 ( )

28 QUESTIONS

56 MARKS

TOTAL TIME FOR BOOKLETS A & B: 1 HOUR 45 MINUTES

INSTRUCTIONS TO CANDIDATES

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer all questions.

Marks for Booklet A: _____ / 56

Parent's Signature: _____

Sections	Marks
A	/ 56
B	/ 44
Total	/ 100

For each question from 1 to 28, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4) and shade your answer on the Optical Answer Sheet.

(56 Marks)

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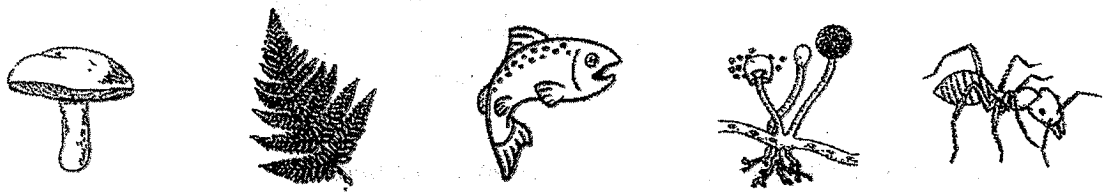
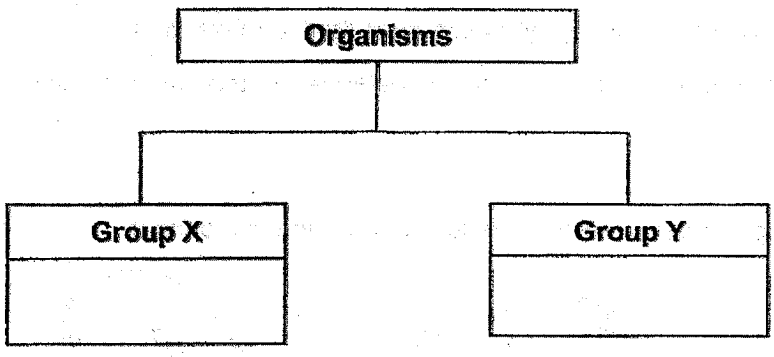
1 The diagram below shows five organisms.



mushroom fern fish bread mould ant

They can be classified into two groups, X and Y, as shown below.



Susan has classified the organisms using different headings for X and Y as shown below.

	Group X	Group Y
P	Reproduce from spores	Do not reproduce from spores
Q	Single-celled	Multi-celled
R	Make its own food	Obtain food from other organisms

Which of the above are suitable ways to classify the organisms?

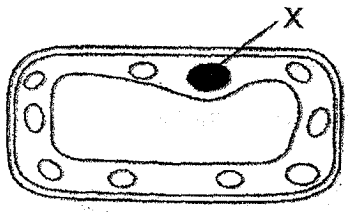
(1) P and Q only

(2) Q and R only

(3) P and R only

(4) P, Q and R

2 The diagram shows cell Z observed under a microscope.



Cell Z

Which of the following statements is correct about part X?

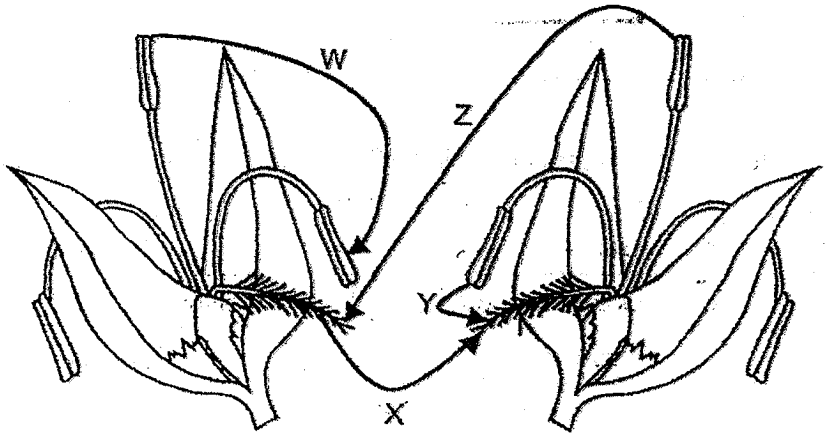
(1) It supports and gives the organism its shape.

(2) It controls activities that happen within the cell.

(3) It contains chlorophyll which traps light to make food.

(4) It controls the movement of substances in and out of the cell.

3 The diagram below shows two flowers from the same plant.



Which of the arrows show(s) pollination taking place?

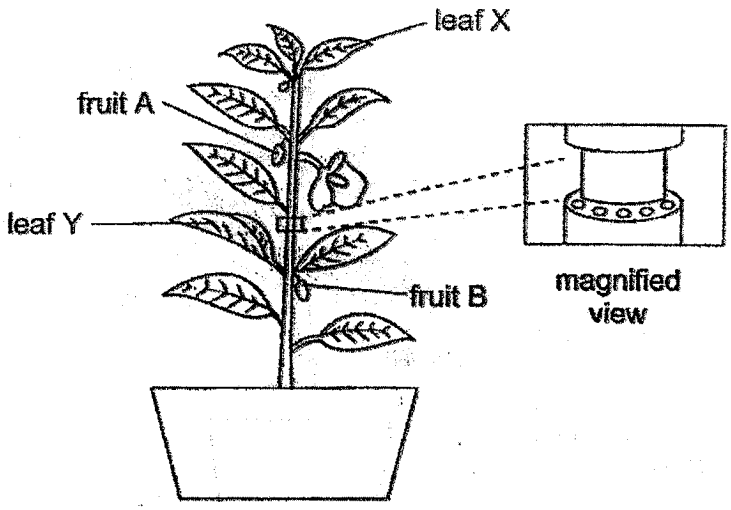
(1) Y only

(2) W and Y only

(3) X and Z only

(4) Y and Z only

4 Khairul removed an outer ring from a plant as shown below. The food and water carrying tubes have been removed. The plant was watered regularly for two weeks.



After one week, he observed that fruit B grew bigger than fruit A.

Which one of the following statements best explains his observation?

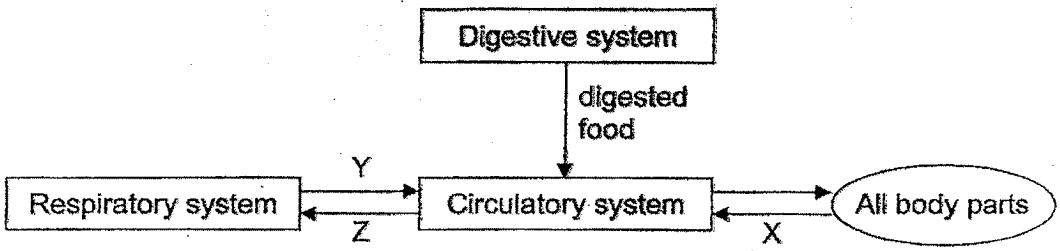
(1) Fruit B made its own food.

(2) Fruit B absorbed food from the soil.

(3) Leaf Y made food which was transported to fruit B.

(4) Leaf X made food, but the food was not transported to fruit A.

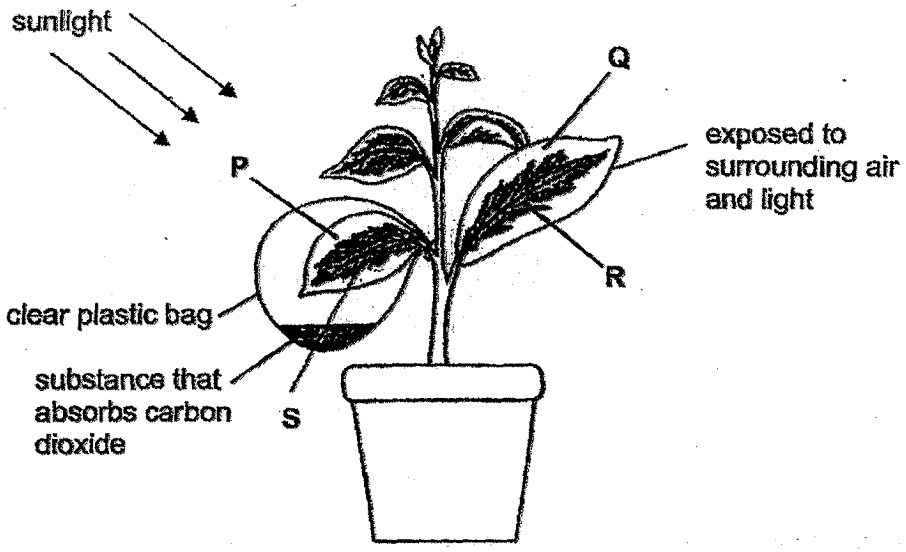
5 The diagram below shows how the circulatory, digestive and respiratory systems in our body work together.



Which of the following correctly shows what X, Y and Z represent?

	X	Y	Z
(1)	oxygen	carbon dioxide	oxygen
(2)	carbon dioxide	oxygen	oxygen
(3)	carbon dioxide	oxygen	carbon dioxide
(4)	oxygen	carbon dioxide	carbon dioxide

6 The diagram below shows an experimental set-up to investigate photosynthesis. The plant has leaves which are green in the middle and white around the edges.



After a few hours, the leaves were removed and tested for the presence of starch.

Which of the following shows the correct test results?

	Leaf areas where	
	starch is present	**starch is absent**
(1)	Q, R	P, S
(2)	R, S	P, Q
(3)	R	P, Q, S
(4)	P, Q, S	R

7 The following predator-prey relationships were observed among four organisms P, Q, R and S.

P is eaten by S.
P feeds on R.
S feeds on R but not Q.
R gets its food from Q.

Which one of the following correctly shows the correct classification of the organisms?

	Food producer	Prey	Predator & prey	Predator
(1)	R	Q	S	P
(2)	Q	R	P	S
(3)	S	R	P	Q
(4)	Q	S	R	P

8 A few people were trapped in a lift during a blackout which caused the fan in the lift to stop working.

Which of the following shows the correct changes in the amount of the components of air inside the lift after one hour?

A Amount of oxygen decreases

B Amount of water vapour increases

C Amount of carbon dioxide remains unchanged

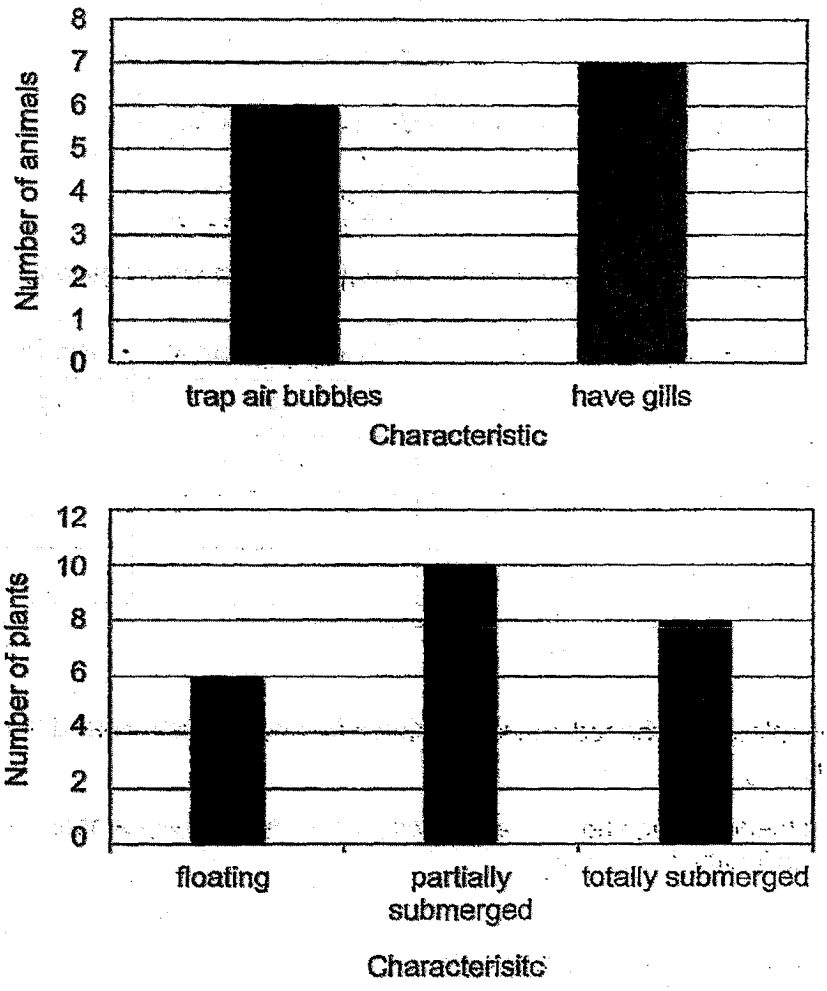
(1) A and B only

(2) B and C only

(3) A and C only

(4) A, B and C

9 Ahmad counted the aquatic plants and animals found in his school eco-pond. He then plotted 2 bar graphs as shown below.



Based on the bar graphs, which of the following statements about the animals and plants in the pond are definitely correct?

A There are 13 animals.

B There are 7 fish in the pond.

C There are 24 populations of plants.

D There are at least 3 populations of plants.

(1) A and D only

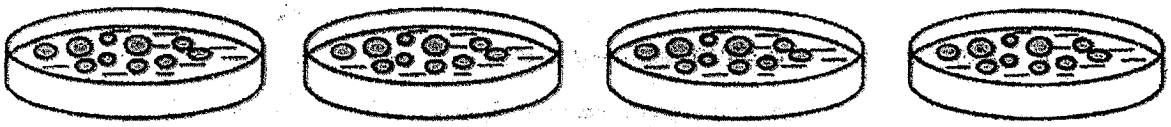
(2) B and C only

(3) A, C and D only

(4) A, B, C and D

10 Tanya put 10 organism M and poured 100 ml of water into each of the four similar containers, P, Q, R and S.

She then added 100 ml of each type of substance X, Y and Z, into Q, R and S respectively as shown below. In container P, she added another 100 ml of water.



Container P	Container Q	Container R	Container S
10 organism M in 200 ml of water	10 organism M in 100 ml of water with substance X	10 organism M in 100 ml of water with substance Y	10 organism M in 100 ml of water with substance Z

Tanya counted the number of organism M in each container over a period of 3 weeks and recorded her findings in the table below.

Container	Substance	Number of organism M			
		At the start of experiment	After 1 week	After 2 weeks	After 3 weeks
P	none added	10	12	16	22
Q	X	10	9	7	3
R	Y	10	12	23	44
S	Z	10	14	18	26

She made the following conclusions based on her findings.

A Substances X, Y and Z are harmful to organism M.

B Substance Y has no harmful effects on organism M.

C Substances Y and Z contained nutrients for organism M.

Which of the above conclusions are likely to be correct?

(1) A and B only

(2) B and C only

(3) A and C only

(4) A, B and C

11 Fruit trees, vegetables and butterflies make up a community in Mr. Lee's farm.

Mr. Lee sprayed insecticide on the vegetables regularly when he found that they were being eaten by caterpillars. The butterflies in the farm pollinate the fruit trees.

How would the spraying of insecticide affect the amount of vegetables and fruits produced over a period of three months?

A Number of fruits produced decreases.

B Amount of vegetables produced increases.

C Amount of vegetables produced decreases.

D Number of fruits produced remains the same.

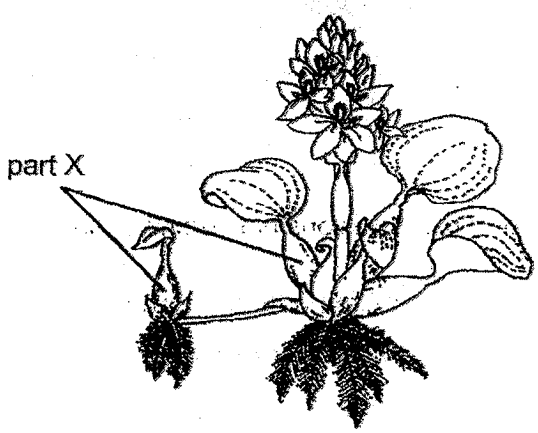
(1) A and B

(2) A and C

(3) B and D

(4) C and D

12 The diagram below shows an aquatic plant, the water hyacinth.

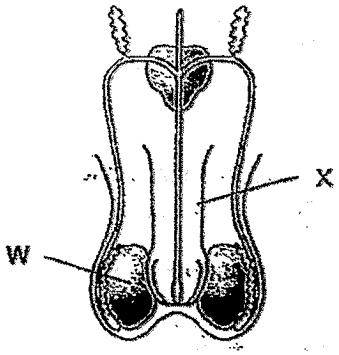


Part X of the plant is swollen.

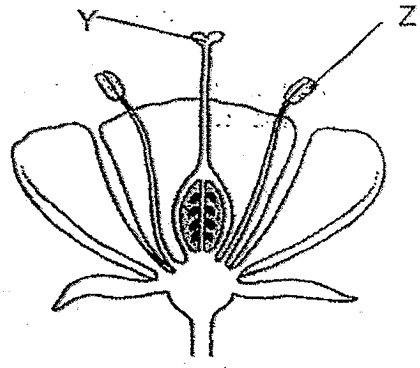
Which of the following correctly shows the substance found in part X and the purpose of being filled with the substance?

	Substance	Purpose
(1)	air	enables the plant to float on water
(2)	air	makes the plant appear bigger to attract pollinators
(3)	water	stores water for the plant
(4)	water	transports water to the rest of the plant

13 The diagrams below show the reproductive systems of a human and a plant.



male reproductive system

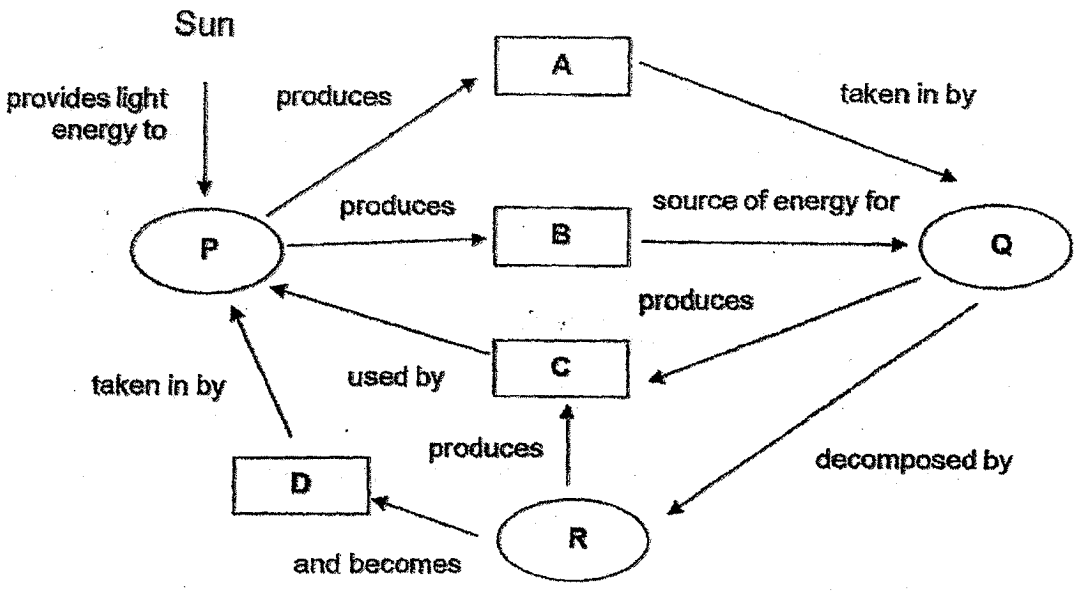


parts of a flower

Which of the following represent the parts involved in producing the male reproductive cells?

(1) W and Z
(2) W and Y
(3) X and Z
(4) X and Y

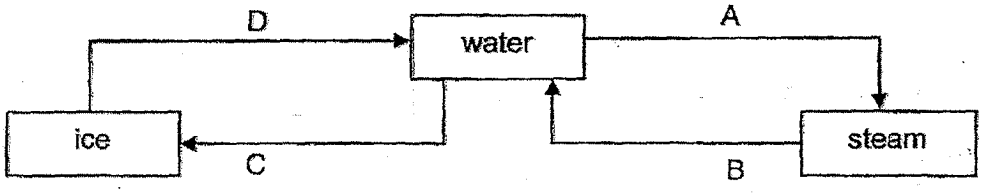
14 The diagram shows interactions taking place between organisms P, Q and R in a community.



Which of the following correctly shows what A, B, C and D represent in the concept map above?

	A	B	C	D
(1)	oxygen	food	carbon dioxide	mineral salts
(2)	oxygen	carbon dioxide	mineral salts	food
(3)	food	oxygen	carbon dioxide	mineral salts
(4)	oxygen	mineral salts	food	carbon dioxide

15 The diagram shows the changes of states of water.



Which processes, A, B, C or D, involve heat loss or heat gain?

	Heat loss	Heat gain
(1)	A and B	C and D
(2)	B and D	A and C
(3)	B and C	A and D
(4)	C and D	A and B

16 The table below shows the states of 4 substances, W, X, Y and Z, at different temperatures.

	State of substance at		
Substance	**25°C**	**60°C**	**95°C**
W	Solid	Solid	Liquid
X	Liquid	Gas	Gas
Y	Solid	Liquid	Gas
Z	Solid	Liquid	Liquid

Which substance has the lowest boiling point?

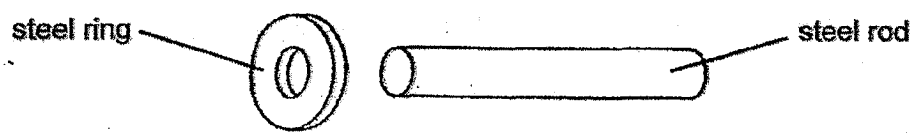
(1) W

(2) X

(3) Y

(4) Z

17 Megan wants to fix a steel ring onto a steel rod as shown below.



The rod is too big to fit into the hole of the ring when they are both at room temperature.

Which of the following actions will enable Megan to fit the rod into the ring?

(1) Cool the rod and heat the ring.

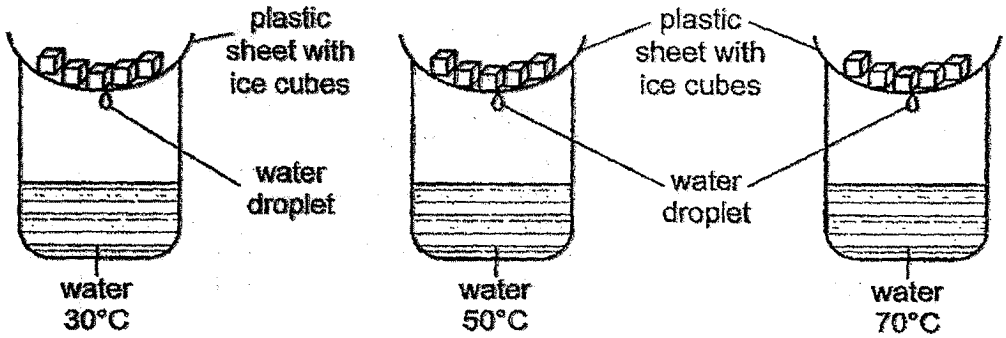
(2) Heat the rod and cool the ring.

(3) Cool the rod and the ring to the same temperature.

(4) Heat the rod and the ring to the same temperature.

18 Keith conducted an experiment as shown below.

Each beaker contained the same amount of water at different temperatures. He added five identical ice cubes onto each set-up. He measured the time taken for the first water droplet to drip into the beaker.



The table below shows the results of his experiment.

Temperature of water (°C)	Time taken for the first water droplet to drip (s)
30	100
50	70
70	20

What is the aim of Keith's experiment?

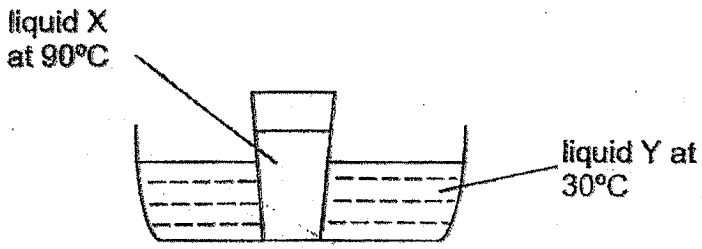
(1) To find out how the temperature of water affects the rate the ice cubes melt.

(2) To find out how the temperature of water affects the rate of evaporation of water.

(3) To find out how the time taken for the first water droplet to drip affects the temperature of water.

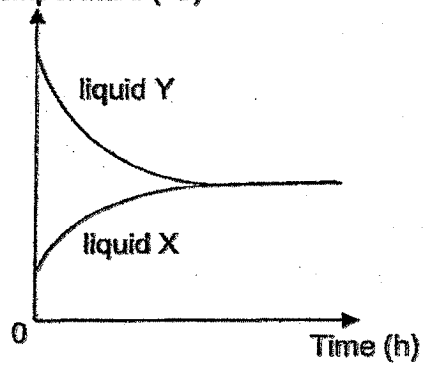
(4) To find out how the number of ice cubes affects the time taken for the first water droplet to drip.

19 Alan put a glass of liquid X into a basin of liquid Y as shown in the diagram below.

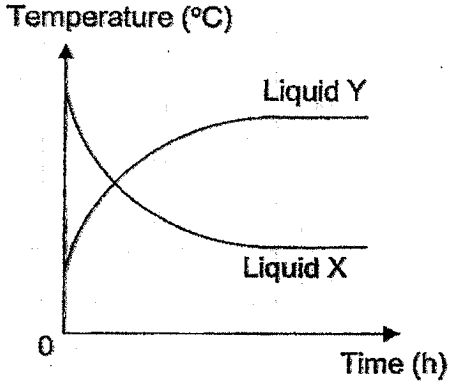


Which one of the following graphs correctly shows the changes in temperature of liquid X and Y after 2 hours?

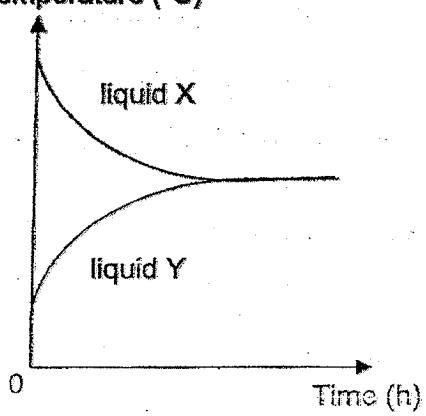
(1)



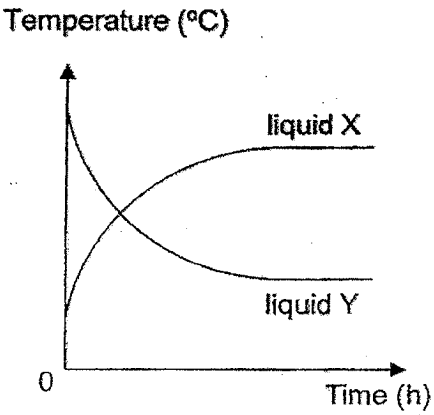
(2)



(3)



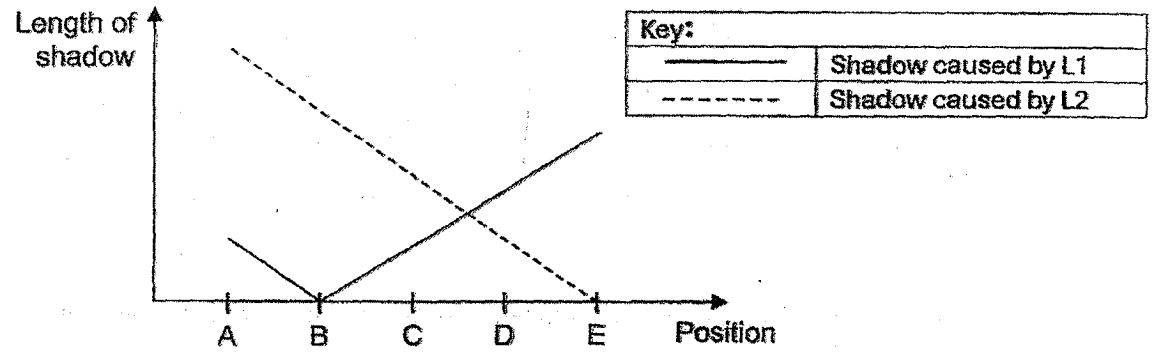
(4)



20 Siti was walking along a path from A to E.

There are two lamps, L1 and L2, along the path, placed at different positions.

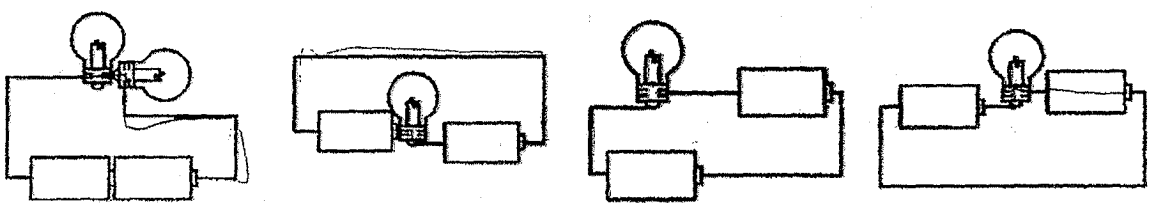
The graph below shows how the length of her shadows changed from positions A to E.



At which position is L1 and L2 at respectively?

	L1	L2
(1)	E	A
(2)	B	E
(3)	A	E
(4)	B	A

21 Study the four circuits shown below. The bulbs and batteries are identical.



Circuit A Circuit B Circuit C Circuit D

In which circuits would the bulb(s) light up?

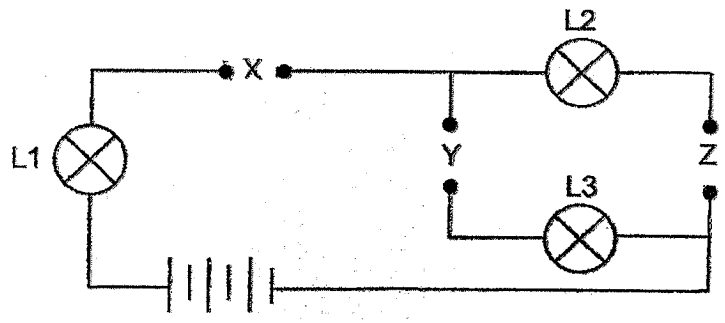
(1) A and B

(2) A and C

(3) B and D

(4) C and D

22 Siew Ling has three rods, P, Q and R, made of different materials. She placed them in various positions, X, Y and Z, in the circuit shown below.



The results of the experiment are shown in the table below.
A tick (✓) was placed in the box when the bulb lit up.

Position where rods were placed			Bulb		
X	Y	Z	L1	L2	L3
P	Q	R	✓	✓	
Q	R	P			
R	P	Q	✓		✓

Based on the results given, what can Siew Ling conclude?

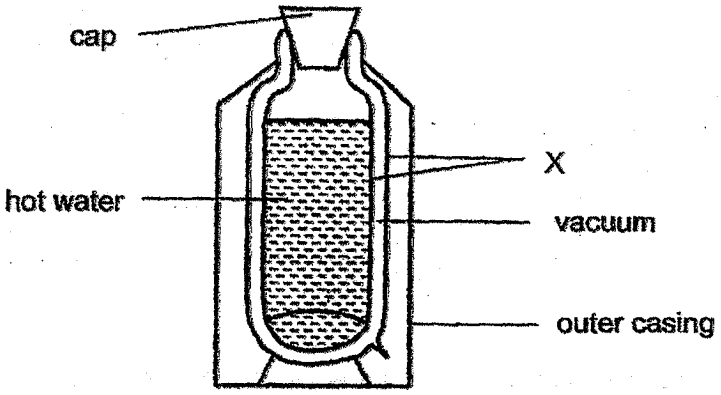
(1) Only rod R is not able to conduct electricity.

(2) Only rods P and Q are able to conduct electricity.

(3) Only rods P and R are able to conduct electricity.

(4) Rods Q and R are better conductors of electricity than rod P.

23 The owner of a factory wanted to produce a vacuum flask to keep water warm for a long period of time. He wanted to find out which materials, P, Q, R or S, is the most suitable for making part X of the flask as shown in the diagram below.



He studied the properties of the four types of materials and recorded his findings in a table below.

Material	Does it allow light to pass through?	Does it absorb water?	Is it a good conductor of heat?
P	Yes	No	Yes
Q	No	No	Yes
R	No	No	No
S	No	Yes	No

Which material is the most suitable for making part X of the flask?

(1) Material P

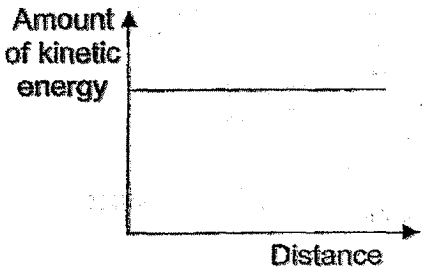
(2) Material Q

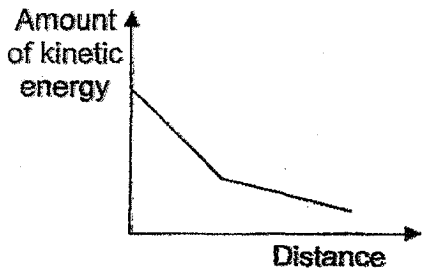
(3) Material R

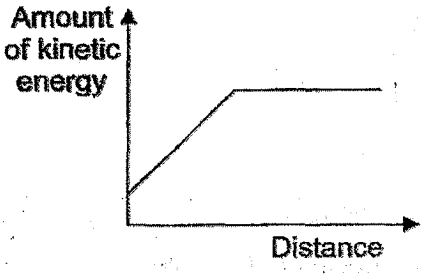
(4) Material S

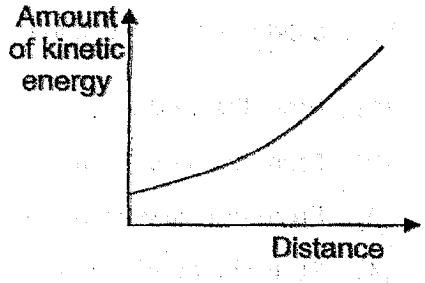
24 Tom is moving down a slope on his bicycle.

Which one of the following graphs shows the relationship between the amount of kinetic energy he has and the distance he travels down the slope?

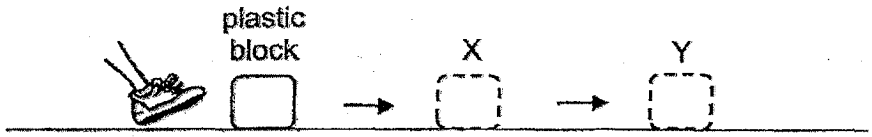
(1)


(2)


(3)


(4)


25 A girl kicked a plastic block as shown below.
The plastic block moved along the floor to X and then to Y. It stopped at Y.

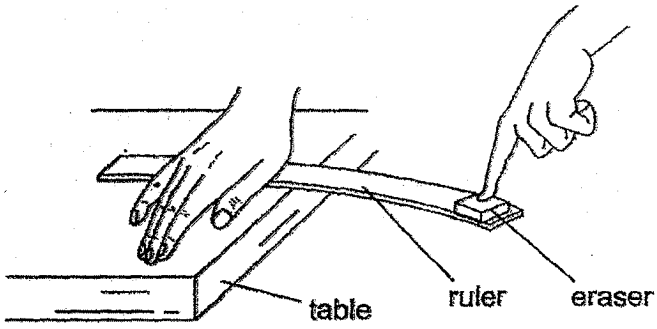


Which of the following is correct?

	Forces acting on the plastic block at			
	X		Y	
	Friction	Weight	Friction	Weight
(1)	✓	✓	✓	
(2)	✓	✓		✓
(3)	✓		✓	✓
(4)		✓	✓	✓

Key: ✓ : present

26 Ellen placed a ruler at the edge of the table and held it down firmly with her hand. Placing an eraser on the other end of the ruler, Ellen pressed the ruler down and then let go of the eraser.



She observed that the eraser was thrown off the ruler.

Where did the eraser obtain its energy from?

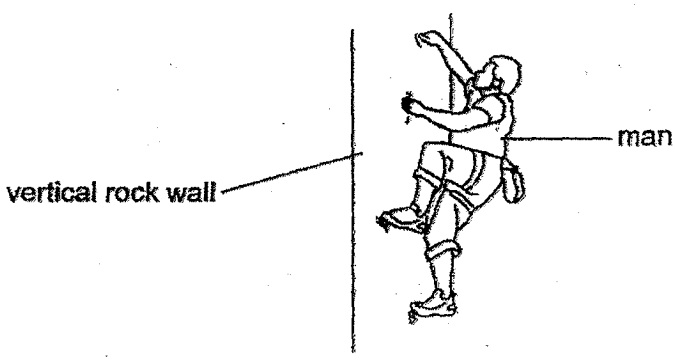
(1) From the bent ruler

(2) From the air surrounding the eraser

(3) From the masses of the ruler and the eraser itself

(4) From the hand that was holding the ruler down on the table

27 The diagram below shows a man clinging onto a vertical rock wall.



Which of the following is a possible explanation why the man is able to cling onto the rock wall?

(1) The frictional force increases as he climbs up the wall.

(2) The frictional force is greater than the weight of the man.

(3) The weight of the man is greater than the gravitational force.

(4) There is no gravitational force acting on the man when he is on the wall.

28 Jerry hangs magnet P from a spring as shown in diagram 1. He then places magnet Q on the ground directly beneath magnet P as shown in diagram 2.

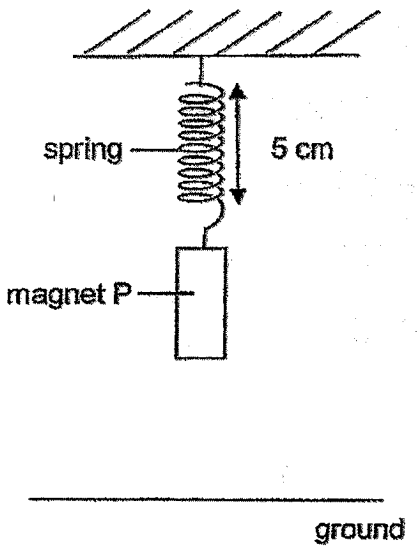


Diagram 1

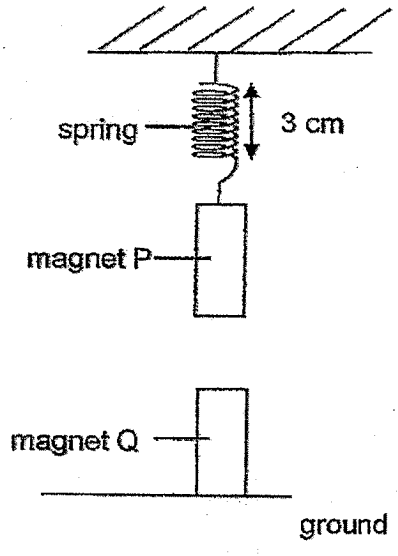


Diagram 2

Based on the diagrams only, which of the following statements are correct?

A Magnet Q is stronger than magnet P.

B Magnets P and Q have the same magnetic strength.

C The like poles of magnets P and Q are facing each other.

(1) B only

(2) C only

(3) A and C only

(4) B and C only

End of Booklet A

HENRY PARK PRIMARY SCHOOL

2024 PRELIMINARY EXAMINATION

STANDARD SCIENCE

PRIMARY SIX

BOOKLET B

Name: _____ ( )

Class: Primary 6 ( )

12 QUESTIONS

44 MARKS

TOTAL TIME FOR BOOKLETS A & B: 1 HOUR 45 MINUTES

INSTRUCTIONS TO CANDIDATES

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer all questions.

Marks for Booklet B: _____ / 44

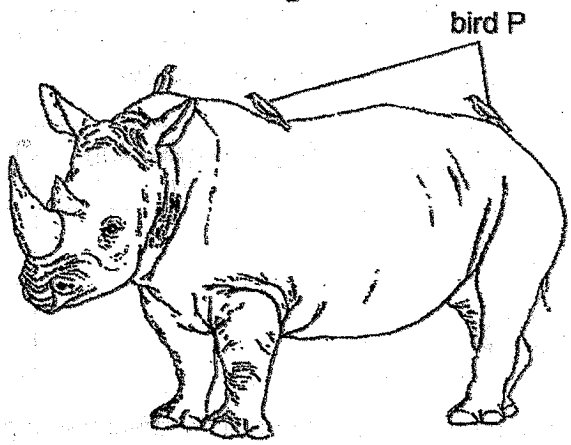
For questions 29 to 40, write your answers in this booklet. The number of marks available is shown in brackets [ ] at the end of each question or part question. (44 marks)

29 Diagram 1 shows animal T, a very small animal that lives on the body of animal R. Animal T punctures the skin of animal R to feed on its blood.
Diagram 2 shows bird P standing on animal R. Bird P feeds on animal T.

Diagram 1

Animal T
(enlarged picture)

Diagram 2



Animal R

(a) How do bird P and animal R benefit from each other? [2]

Benefit for bird P: _____

_____

Benefit for animal R: _____

_____

Animal R has poor vision and is hunted by humans for its body parts.

The table below shows the average distance from which animal R is able to spot humans and the frequency of spotting humans with and without bird P standing on its body.

	With bird P	Without bird P
Average distance of spotting humans (m)	61	27
Average frequency of humans being spotted (%)	100	23

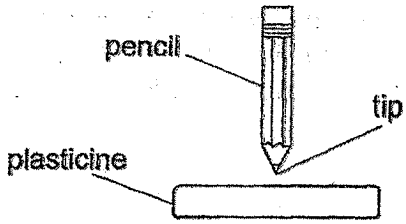
(b) Using the information from the table above, explain the effect of bird P's presence on the chances of survival of animal R. [2]

_____

_____

_____

30 Asher conducted an experiment to find out how the type of pencil tip affects the depth it pierces into a block of plasticine. He used two identical pencils with different tips and dropped them from the same height.

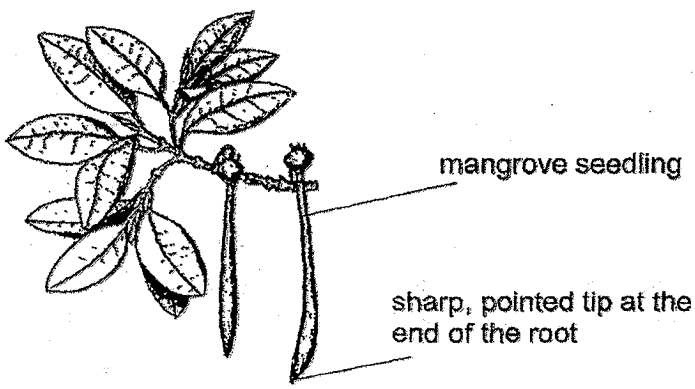


He recorded his results in the table below.

Type of pencil tip	Depth of piercing (cm)	Does the pencil stay in the plasticine?
	1	No
	2	Yes

(a) How does the type of pencil tip affect the depth of piercing? [1]

Mangrove trees grow in coastal areas that can be muddy or even flooded, depending on the tide. Mangrove seeds germinate while on the tree. Once the seedlings can make their own food, they drop into the soil below the parent plant.



(b) Based on Asher's experiment, explain how having a sharp tip at the end of the root increases the chance of the seedling growing into an adult plant. [1]

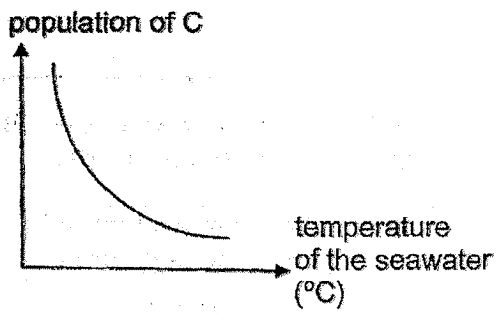
(c) State a disadvantage when the seedling drops into the muddy soil below the parent plant and grows there. [1]

31 Alex carried out an experiment to find out how exercise affects his heart rate. His results are shown in the table below.

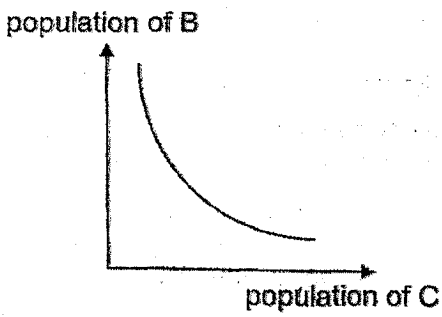
When heart rate was measured	Heart Rate (beats per minute)
Before exercise	75
Immediately after running	140
After 5 minutes of rest	90

Explain the decrease in his heart rate after resting. [2]

32 Living things B and C live in the sea. The 2 graphs below show how an increase in the temperature of the sea affects the populations of living things B and C.



Graph 1



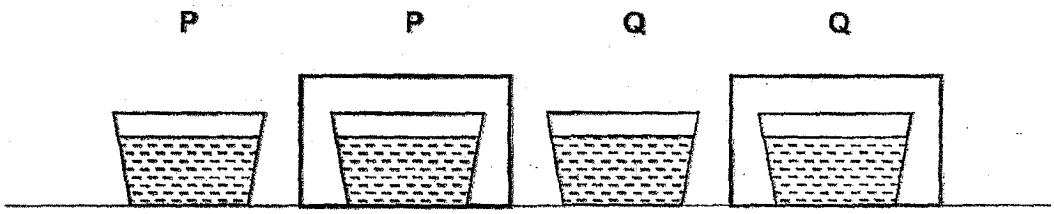
Graph 2

(a) What happens to the population of living thing B when the temperature of the seawater increases? [1]

(b) State the relationship between living things B and C. [1]

(c) Explain your answer in (b) using information from graphs 1 and 2. [2]

33 Jaffar found two living things, P and Q, in a pond. He wanted to find out whether they were animals or plants. He filled four containers 1, 2, 3 and 4 with pond water.
He placed living thing P in containers 1 and 2 and living thing Q in containers 3 and 4. Containers 1 and 3 were placed in the light. Containers 2 and 4 were placed in the dark as shown below.



Observe the experimental set-ups shown above.

(a) Suggest one way Jaffar has ensured that the experiment is a fair test. [2]
Explain your answer.

Jaffar added a drop of liquid X in each container. The table below shows the colour of liquid X in the presence of more oxygen or more carbon dioxide.

Colour of liquid X	When more oxygen is present	When more carbon dioxide is present
	blue	yellow

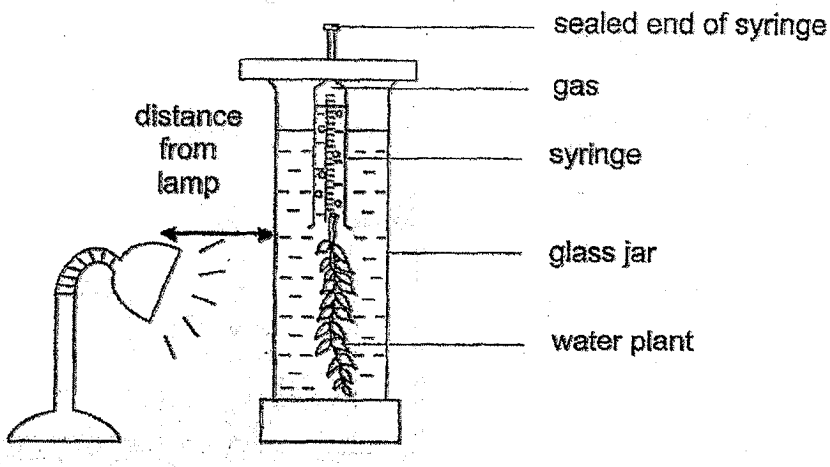
At the end of two hours, the following results were obtained.

Container	Colour of Liquid X
1	yellow
2	yellow
3	blue
4	yellow

Based on the results, Jaffar concluded that P was an animal.

(b) Is Jaffar's conclusion correct? Explain your answer. [2]

34 Mel set up the experiment shown below to investigate how temperature affects the rate of photosynthesis.



The number of bubbles produced per minute was counted at different temperatures and recorded in the table below.

Temperature (°C)	Number of bubbles produced per minute		
	Trial 1	Trial 2	Trial 3
10	7	6	8
15	12	14	11
20	20	19	17
25	36	34	32
30	50	52	51
35	42	44	45
40	3	2	1

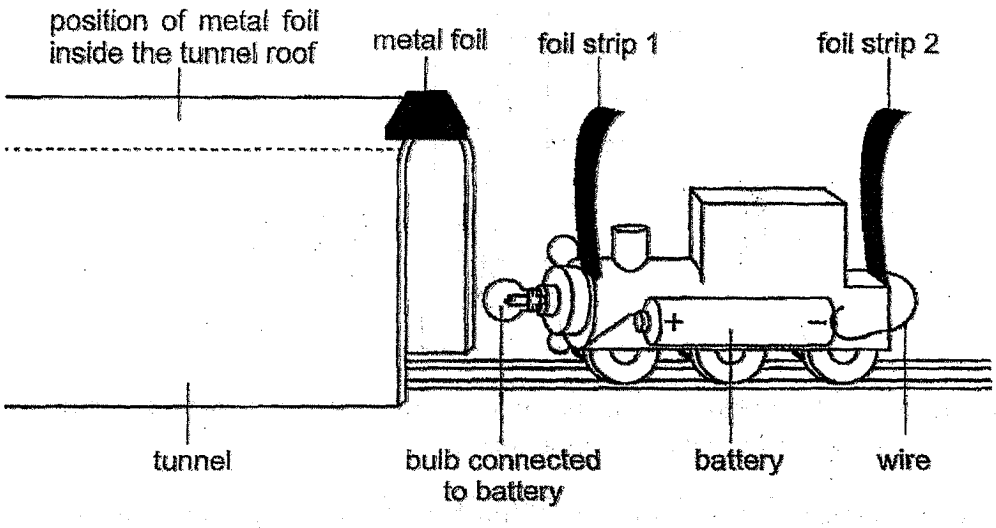
(a) How did Mel measure the rate of photosynthesis in this experiment? [1]

(b) How does carrying out the experiment 3 times make the results more reliable? [1]

(c) Name another factor needed for the water plant to make food. [1]

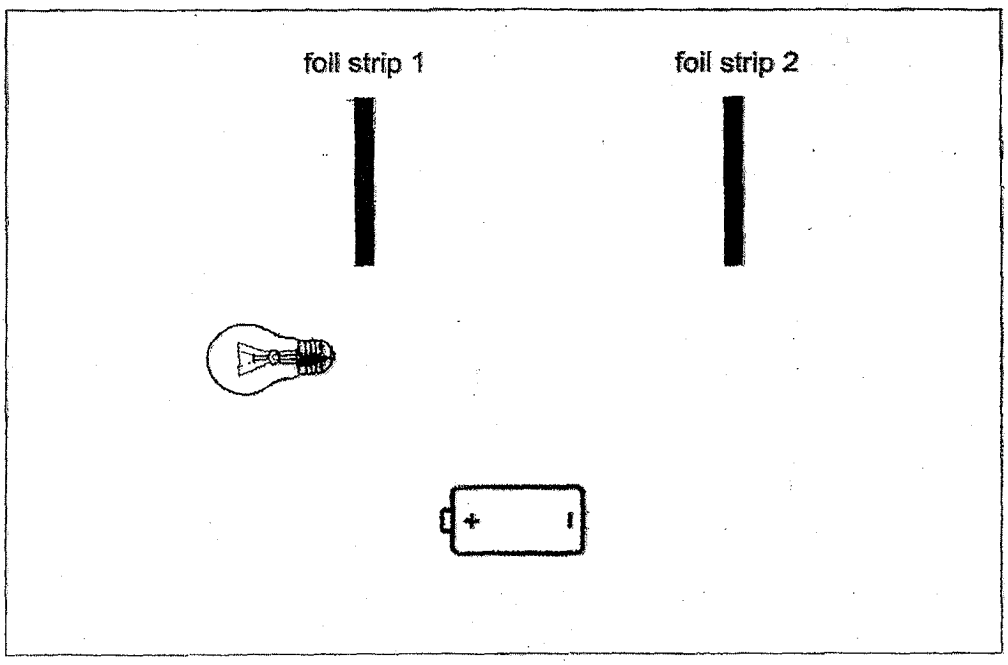
Explain how this factor can be kept the same throughout the experiment.

35 Sarah wants a light bulb to light up when her toy train is pushed through a tunnel. She makes a tunnel using cardboard and puts a strip of metal foil inside the tunnel roof as shown below.



She realised that the bulb was too dim when the toy train was inside the tunnel.

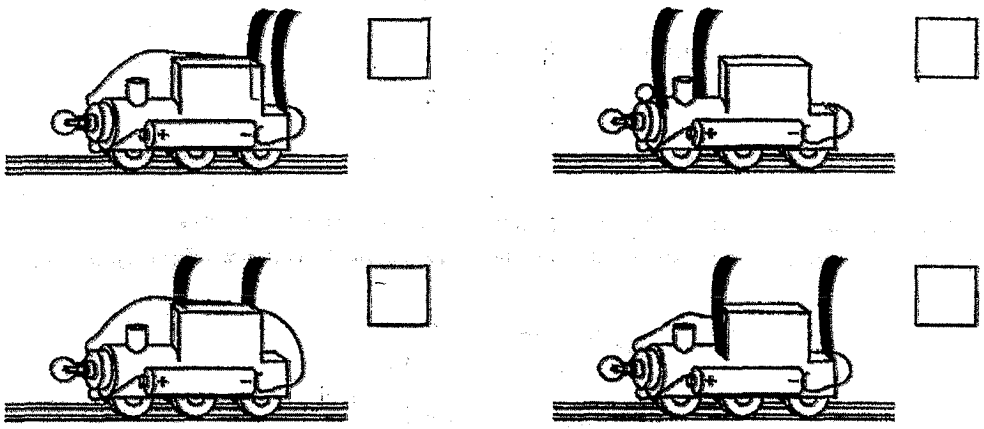
(a) Add another battery and complete the circuit below so that the light bulb becomes brighter when the circuit is closed. [2]



Question 35 continued

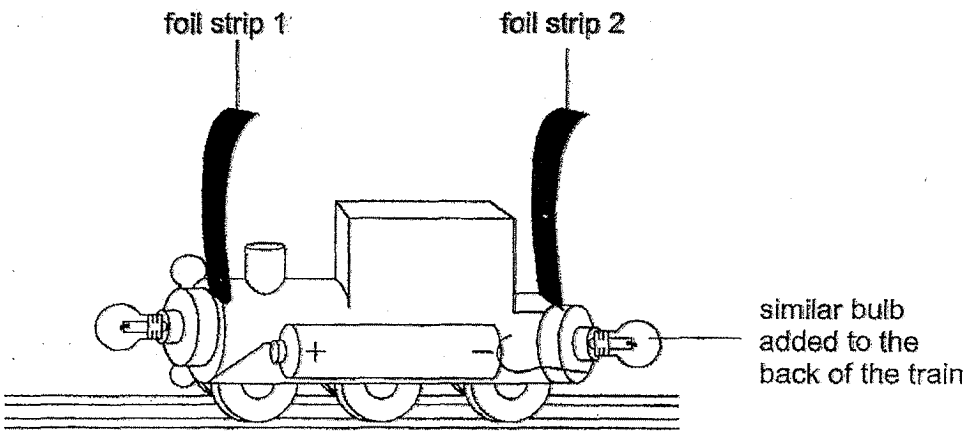
Sarah wants to improve her circuit so that the bulb lights up as soon as the train enters the tunnel.

(b) Which design should she use? Put a tick (✓) in the box. [1]



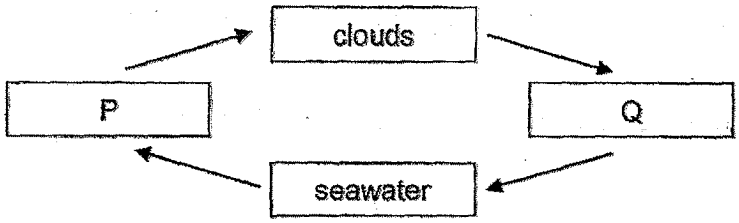
(c) Explain your choice in (b). [1]

Sarah connected another similar bulb at the back of her train as shown below.



(d) Will the brightness of the first bulb **increase**, **decrease** or **remain the same**? Explain your answer. [1]

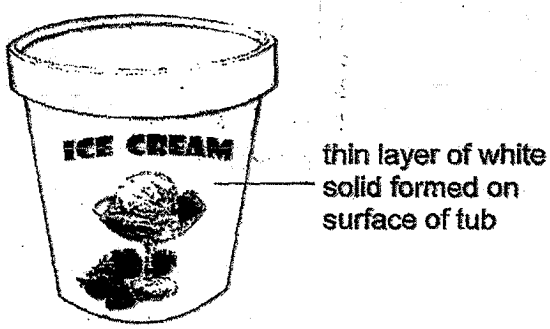
36 The diagram below shows the water cycle.



(a) Identify the states of matter of P and Q. [1]

P: _____ Q: _____

Siti took a tub of ice cream from the freezer and placed it on a table.
After a short time, a thin layer of white solid was formed on the surface of the tub.



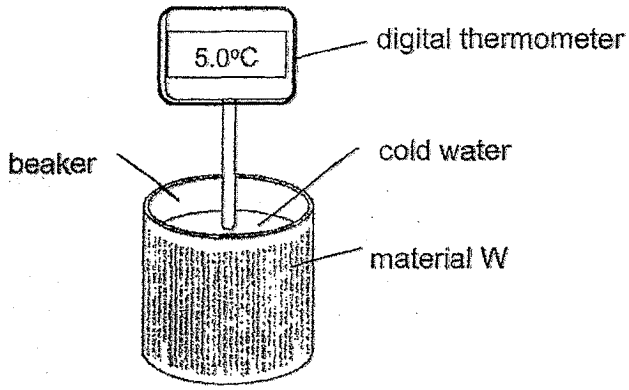
(b) Explain how the white solid was formed. [2]

_____

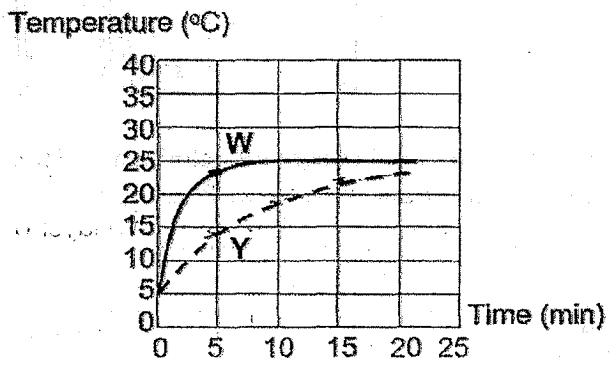
_____

_____

37 Ming Li conducted an experiment using the set-up shown below.
He measured the temperature of the cold water at different times in the room.

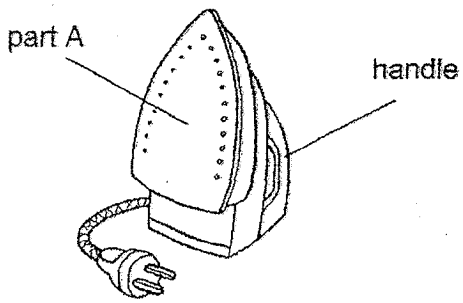


He repeated the experiment using material Y. He plotted his results as shown below.



(a) From the graph, state the room temperature. [1]

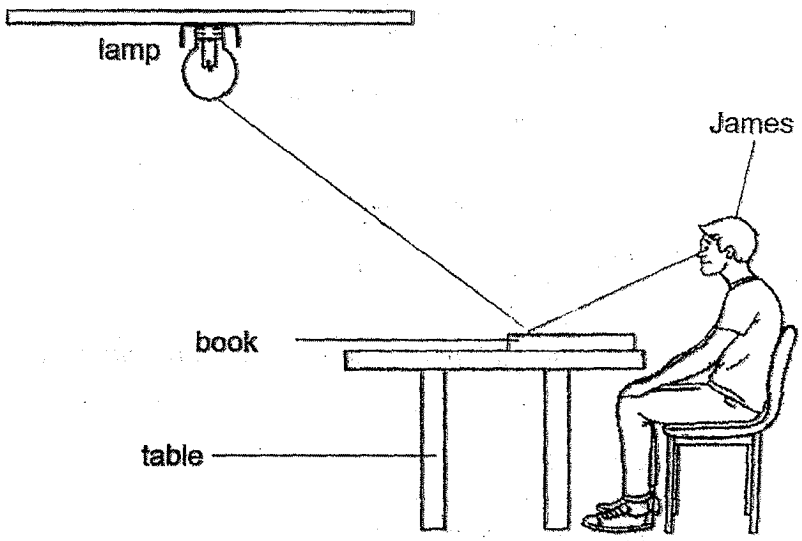
The diagram shows an iron.



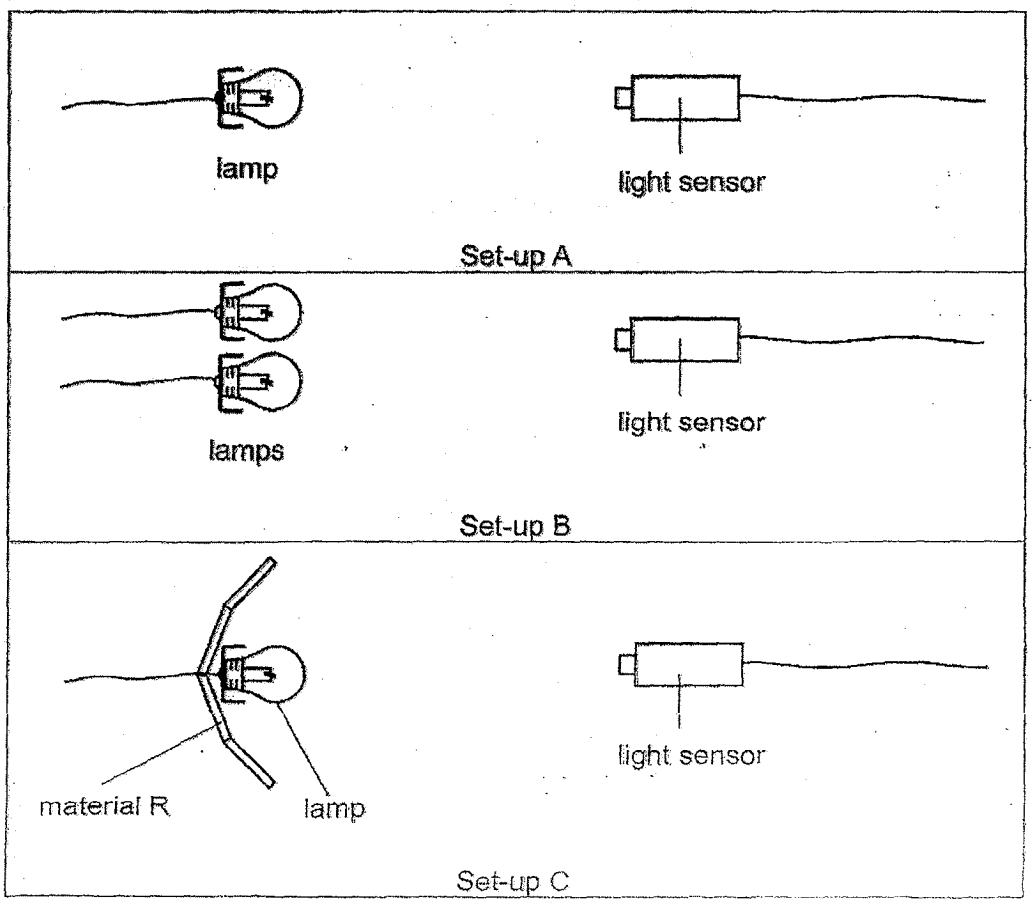
When part A of the iron is heated, the handle must be cool enough to be used safely by Ming Li.

(b) Which material, W or Y, should be used to make the handle? Explain your answer. [2]

38 **(a)** In the diagram below, draw arrows to show the path of light which enables James to see the book. [1]



James wanted to find out the amount of light detected when different set-ups, A, B or C, are used. Similar lamps were used for all 3 set-ups.



Question 38 continued

His results are shown in the table below.

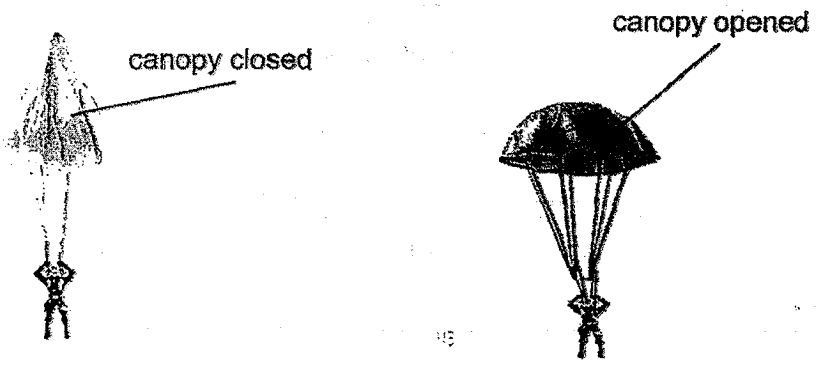
Set-up	Amount of light detected (unit)
A	200
B	400
C	400

(b) Based on the results, state a useful property of material R. [1]

(c) What is an advantage of using material R instead of 2 lamps? [1]

39 **(a)** State what frictional force is. [1]

Nathan conducted an experiment with a toy parachute. He released it with the canopy closed and then opened, from a height of 10 metres, as shown in the diagram.



He recorded his findings in the table shown below.

Condition of canopy	Time taken for parachute to reach the ground (s)			
	1st try	2nd try	3rd try	Average
closed	5	4	6	5
opened	8	10	9	9

(b) How does the condition of the canopy affect the time taken for the toy parachute to reach the ground? [1]

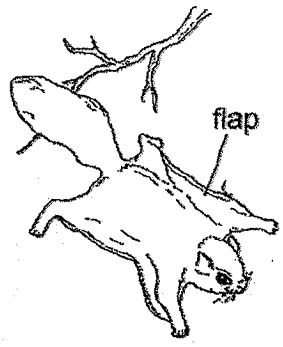
Question 39 continued

The diagrams below show animal K.

Diagram 1

Animal K resting on a tree trunk

Diagram 2



Animal K using large flaps of its skin to glide to another tree

(c) Name 2 forces that are acting on animal K when it is gliding. [1]

(i) _____ (ii) _____

(d) Based on the findings of Nathan's experiment, explain how using large flaps of its skin to glide increases the survival of animal K. [2]

_____

_____

_____

Please do not write in the margin.

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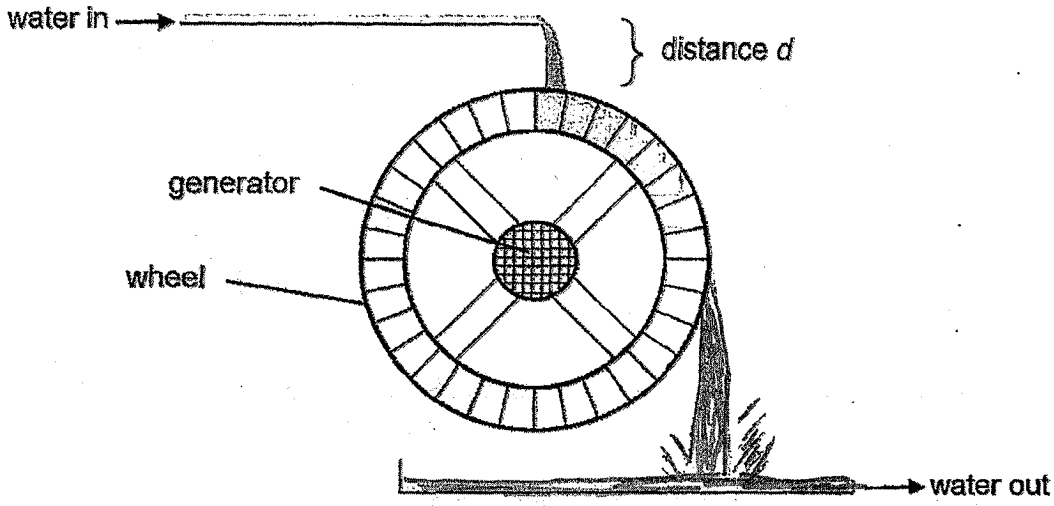
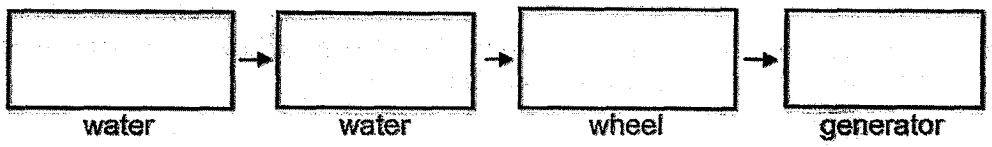
40 The diagram shows how a water wheel is used to generate electricity.

Water flows down from the top and turns the wheel.

A generator connected to the wheel at the centre produces electricity.



(a) Fill in the boxes with the main forms of energy as the water flows down. [2]



(b) How does the amount of electricity produced by the generator change when distance *d* increases? [2]

Explain your answer in terms of energy conversion.

(c) How does using the water wheel to produce electricity benefit the environment? [1]

End of Booklet B

Please do not write in the margin.

SCHOOL : HENRY PARK PRIMARY SCHOOL

LEVEL : PRIMARY 6

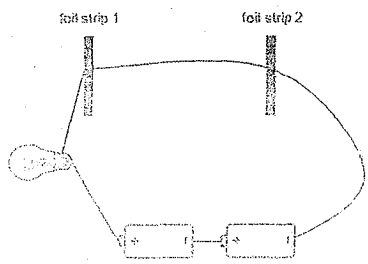
SUBJECT : SCIENCE

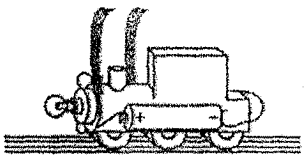
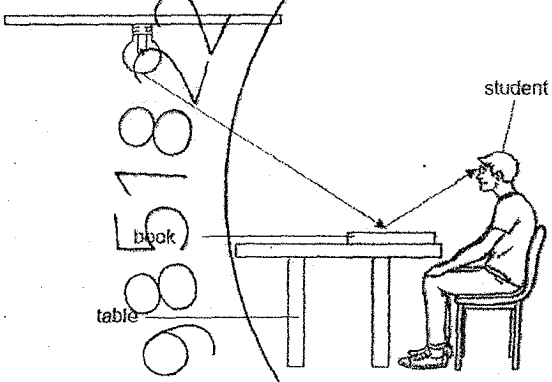
TERM : 2024 PRELIMINARY EXAMINATION

Booklet A

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
3	2	4	3	3	3	2	1	1	2
Q11	Q12	Q13	Q14	Q15	Q16	Q17	Q18	Q19	Q20
1	1	1	1	3	2	1	2	3	2
Q21	Q22	Q23	Q24	Q25	Q26	Q27	Q28		
3	3	3	4	2	1	2	2		

Name: _____ ( ) Class: _____

Qn	Suggested Answers for Prelims 2024
29a	Benefit for bird P: Bird P is able to obtain food. Benefit for animal R: Animal T is removed from Animal R's body, preventing animal T from feeding on animal R's blood.
29b	C: The chances of animal R surviving is higher. E: When bird P is present, Animal R is able to spot humans from a further distance and humans are always spotted. R: This increases Animal R's chances of escaping from humans.
30a	The sharper the pencil tip, the deeper it pierces into the plasticine.
30b	The roots will pierce deeper, allowing the seedling to anchor itself in the (muddy) soil.
30c	The seedling will have to compete with the parent plant for sunlight, space and nutrients.
31	When Alex was resting, his body needs lesser oxygen and digested food so the heart pumps slower to send digested food and oxygen more slowly to the different parts of the body.
32a	Population of B increases
32b	B is the prey C / C is the predator of B
32c	When the temperature of seawater increases, the population of C decreases so there will be fewer C feeding on B.
33a	Keep the amount of water in each container the same. This will ensure that the amount of oxygen / carbon dioxide is the same in each container.
33b	Yes. In container 1, the colour of liquid X was yellow. In the presence light, P could only respire and did not photosynthesize.
34a	She counted the number of (oxygen) bubbles produced by the water plant per minute.
34b	To check if consistent results are obtained during the trials.
34c	Light. Keep the distance between the light source and the water plant the same in all the trials.
35a	

35b		35c	Both foils will be in contact with the metal foil (inside the tunnel) earlier compared to the other designs.
35d	Decrease. The bulbs are connected in series so there will be less electricity flowing through each bulb / the circuit.		
36a	P – gas Q – liquid		
36b	The warmer water vapour from the surrounding lost heat to the cooler tub and condensed The water droplets lost heat to the cooler tub and froze.		
37a	25°C		
37b	C: Y E: The temperature of water in the beaker wrapped with material Y increases slower. R: Y is a poorer conductor of heat. Heat is conducted slower from the hotter iron to Ming Li's hand.		
38a			
38b	It is able to reflect light.		
38c	It saves electricity.		
39a	Frictional force opposes motion.		
39b	An opened canopy caused the parachute to take a longer time to reach the ground.		
39c	Gravity and Friction		
39d	It can travel further so it can escape from predators more easily.		
40a	Potential Energy to Kinetic Energy to Kinetic Energy to Electrical Energy		
40b	The amount of electricity produced by the generator increases. As distance d increases, water gains more potential energy which gets converted to more kinetic energy. More kinetic energy is transferred to the wheel. As the wheel turns faster more kinetic energy is converted to more electrical energy.		
40c	Does not burn fossil fuels.		