RED SWASTIKA SCHOOL

SCIENCE
2025 END-OF-YEAR EXAMINATION
PRIMARY 4

Name : _____ ( )

Class : Primary 4/ _____

Date : 24 October 2025

BOOKLET A

Total time for Booklets A & B: 1h 45 min

Booklet A: 30 questions (60 marks)

Note:

1. Do not open the booklet until you are told to do so.
2. Read carefully the instructions given at the beginning of each part of the booklet.
3. Do not waste time. If the question is too difficult for you, go on to the next question.
4. Check your answers thoroughly and make sure you attempt every question.
5. In this booklet, you should have the following:
   a. Page 1 to Page 16
   b. Questions 1 to 30

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For Questions 1 to 30, choose the most suitable answer and shade its number in the OAS provided.

1. In January 2022, Kim was given a puppy. The picture below shows the size of the dog in January 2025.



In January 2022

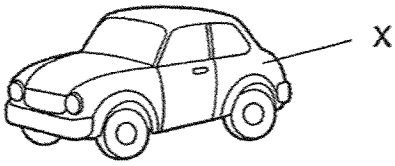


In January 2025

From her observation, Kim concluded that the dog is a living thing because it can _____.

(1) grow
(2) breathe
(3) respond
(4) reproduce

2. The diagram below shows a car.



Metal is used to make Part X because metal is _____.

(1) shiny
(2) strong
(3) flexible
(4) transparent

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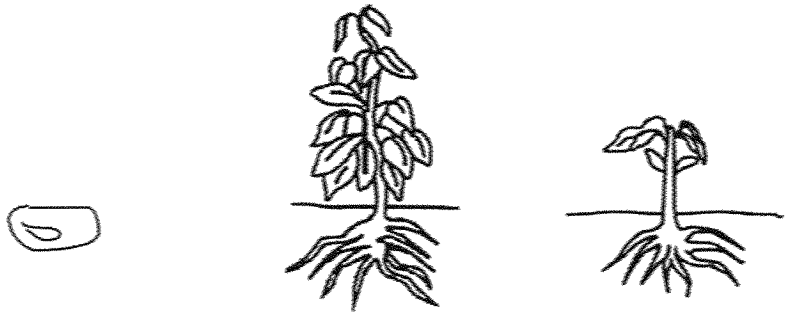
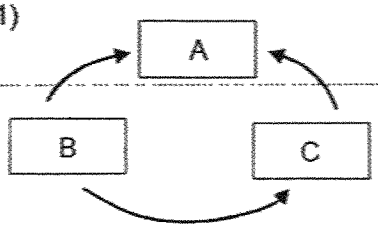
3. A, B and C are stages in the life cycle of a plant.



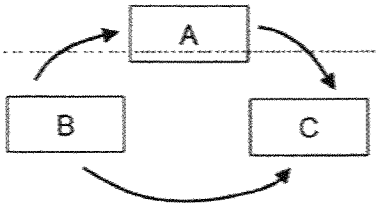
A B C

Which of the following shows the correct life cycle of the plant?

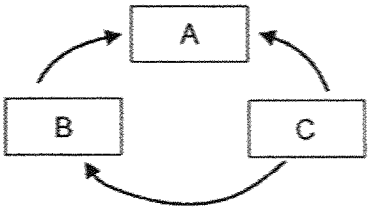
(1)



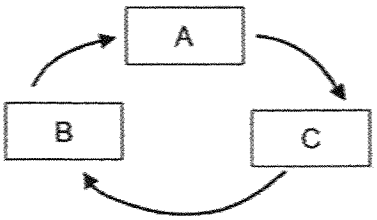
(2)



(3)



(4)



4. Which animal has a pupa as a stage in its life cycle?

(1) frog
(2) beetle
(3) chicken
(4) cockroach

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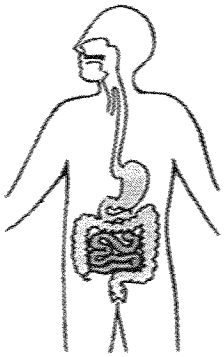
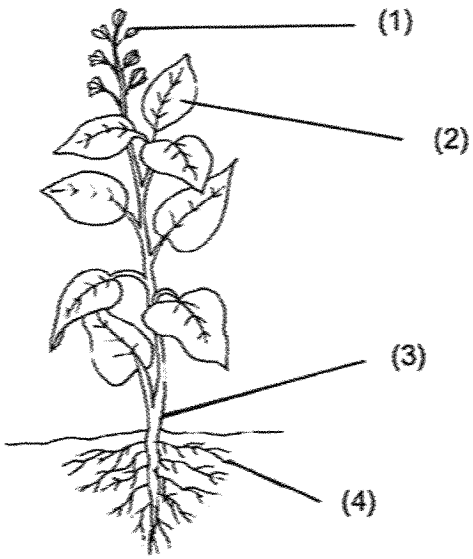
5. Which human system is shown in the diagram?



(1) skeletal system
(2) muscular system
(3) digestive system
(4) respiratory system

6. Which of the following part makes food for the plant?



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7. Razi pumped air into the float shown in the diagram below.



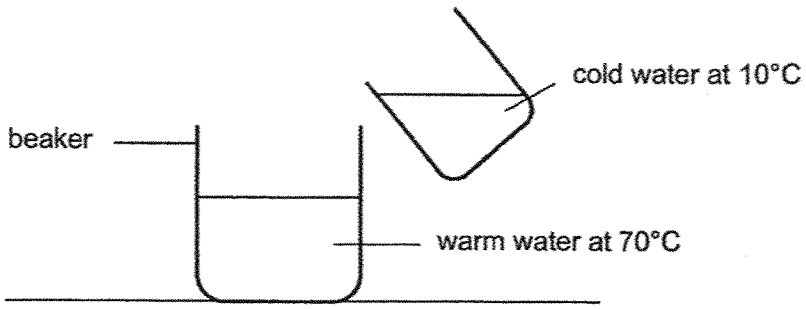
More air can be pumped into the float even though it is already filled with air. This is because air _____.

(1) is matter
(2) has a fixed shape
(3) does not have a fixed mass
(4) does not have a fixed volume

8. Which of the following is not a source of light?

(1) Sun
(2) Moon
(3) Lighted torch
(4) Lighted candle

9. Warm water at 70°C is mixed with cold water at 10°C.



What is a possible final temperature of water in the beaker?

(1) 75°C
(2) 70°C
(3) 50°C
(4) 10°C

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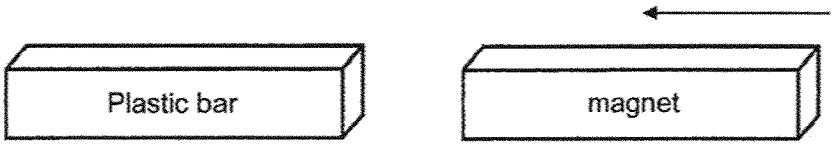
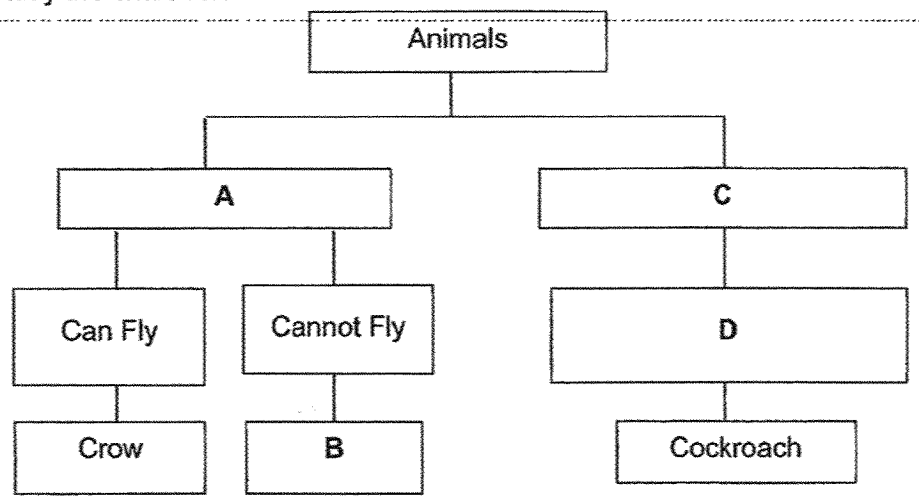
10. The diagram shows how a magnet is brought near to a plastic bar.



What will happen to the plastic bar?

(1) It will move up.
(2) It will not move.
(3) It will move to the left.
(4) It will move to the right.

11. Study the chart below.



Which of the following correctly represents A, B, C and D?

	A	B	C	D
(1)	Have wings	Ostrich	Have no wings	Have 6 legs
(2)	Have feathers	Sparrow	Have hard outer covering	Cannot fly
(3)	Have 2 legs	Eagle	Have 6 legs	Can fly
(4)	Birds	Penguin	Insects	Can fly

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12. The characteristics of animals X and Y can be seen in the table below.

A tick (✓) indicates that the characteristic is present.

Characteristic	X	Y
Lay eggs		✓
Has wings	✓	
Can swim	✓	
Has 3 body parts		✓

Can animals X and Y be in the same animal group?

(1) No. X has wings but Y does not have wings.
(2) No. X can swim but Y cannot swim.
(3) No. Y has 3 body parts but X does not have 3 body parts.
(4) Yes. Animals in the same animal group can reproduce differently.

13. Estelle planted some seeds in the soil. Which of the following would she observe first?

(1) The stem appeared.
(2) The roots appeared.
(3) The flowers appeared.
(4) The green leaves appeared.

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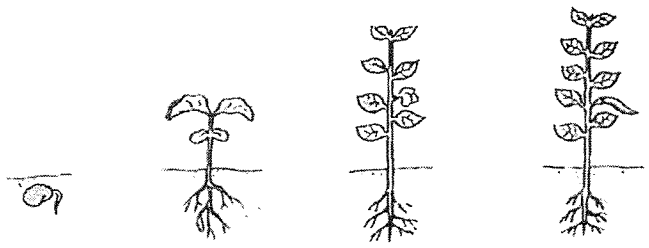
14. The diagram below shows how a plant grows.

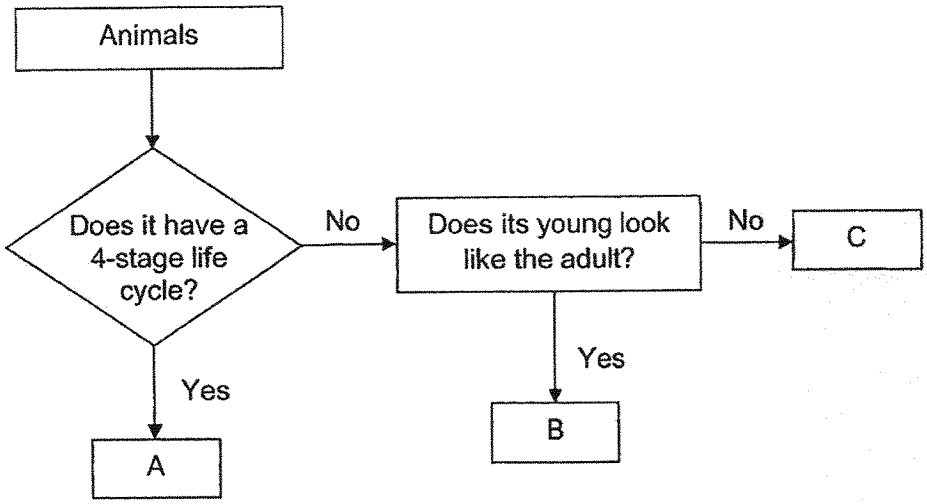


A B C D

Which of the following statements is correct?

(1) The plant reproduces by spores.
(2) The plant absorbs water only in stage A.
(3) The plant does not need air at stage B.
(4) The plant can make food at stages B, C and D.

15. Study the flowchart below.



Which of the following could be animals A, B and C?

	A	B	C
(1)	mosquito	chicken	frog
(2)	mosquito	frog	grasshopper
(3)	cockroach	chicken	grasshopper
(4)	cockroach	frog	chicken

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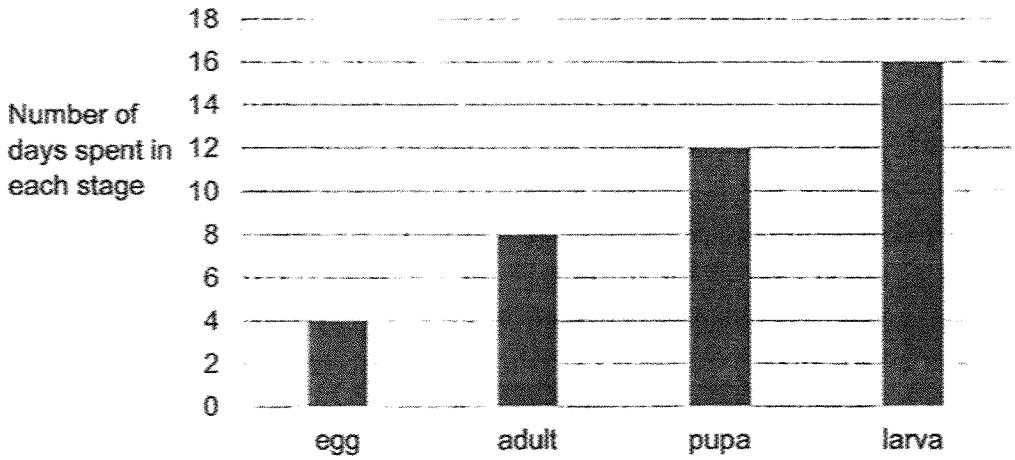
16. Weilin studied the life cycle of an insect and recorded her results in the graph below.



Based on the results given in the graph above, which of the following statements is correct?

(1) The insect has 3 stages in its life cycle.
(2) The insect became an adult on the 8th day.
(3) The total number of days in the insect's life cycle is 16 days.
(4) The insect does not move around to look for food for 16 days of its life.

17. Alan is running in the park. Which body systems are used in this activity?



(1) Muscular and skeletal system
(2) Respiratory and muscular system
(3) Respiratory, muscular and skeletal system
(4) Respiratory, circulatory, muscular and skeletal system

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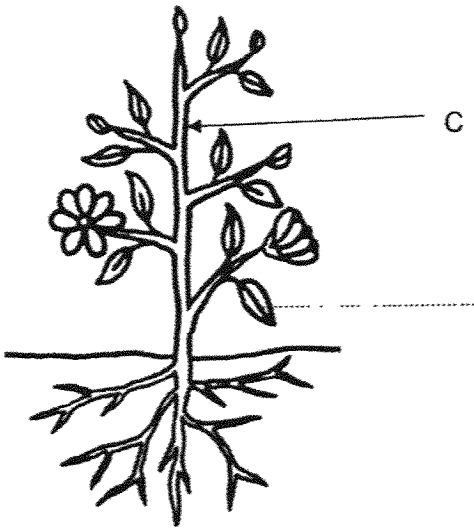
18. Digestion takes place at the _____.

(1) mouth and stomach only
(2) stomach and small intestine only
(3) mouth, stomach and small intestine only
(4) mouth, stomach, small intestine and large intestine

19. The diagram below shows a plant.



The plant was cut off completely at Part C. What will happen to the remaining part of the plant?

(1) The remaining part will die as it cannot make food.
(2) The remaining part will die as it cannot absorb water.
(3) The remaining part will survive as it still has roots to make food.
(4) The remaining part will survive as it still has leaves to make food.

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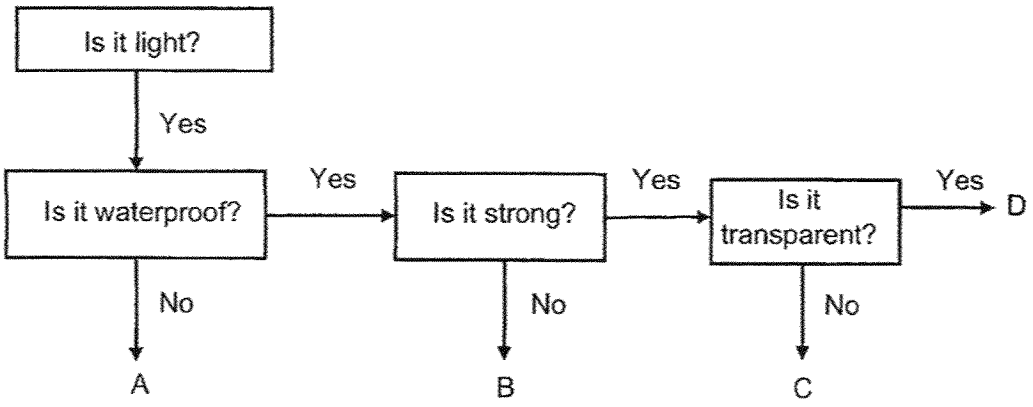
20. The flow chart below classifies materials A, B, C and D.



Based on the flow chart above, which material(s) can be selected to make a cup?

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

21. Which of the following correctly matches the property of the material to its use?

(1) Wood: To make furniture as it is flexible
(2) Glass: To make containers as they break easily
(3) Rubber: To make rubber gloves as it is waterproof
(4) Metal: To build ships because it allows light to pass through

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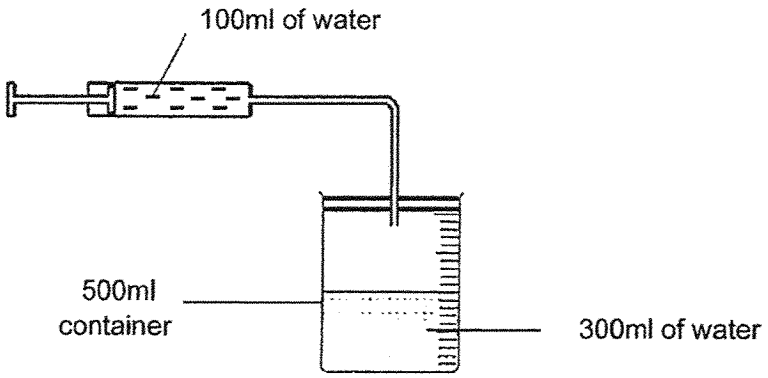
22. The diagram below shows a sealed 500ml container. There is 300ml of water inside the container.



100ml of water is pumped into the sealed container. What will be the final volume of water and air inside the container?

	Volume of water (ml)	Volume of air (ml)
(1)	200	300
(2)	300	200
(3)	400	100
(4)	400	200

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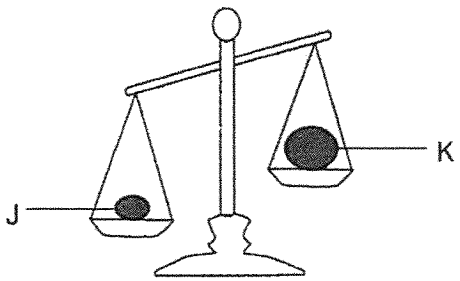
23. Ashley placed two objects, J and K, on a balance as shown below.



She made the following statements:

A: J has a greater mass than K.
B: K has a greater volume than J.
C: Both J and K do not occupy space.
D: Both J and K do not have a definite volume.

Which of the statements above are true?

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

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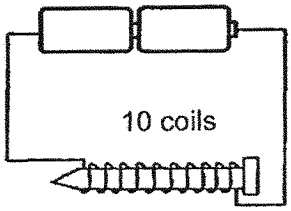
24. The setup below shows how a steel nail can be turned into an electromagnet.



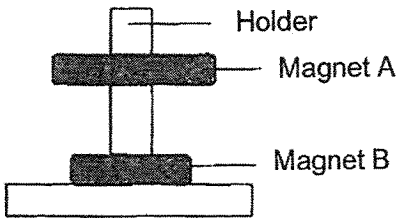
Mr Ang asked some students how the electromagnet can be made stronger. Four students responded as below:

Ali:	Increase the number of batteries.
Brendon:	Increase the number of coils around the nail.
Christine:	Use a larger copper nail.
Dave:	Turn the steel nail around.

Who are correct?

(1) All of the four students
(2) Ali and Brendon only
(3) Ali and Christine only
(4) Brendon and Christine only

25. Study the diagram below. Magnet A is being repelled by Magnet B.



Which of the following best describes the materials used to make magnets and the holder?

	Magnet A	**Magnet B**	**Holder**
(1)	Steel	Aluminium	Steel
(2)	Copper	Steel	Iron
(3)	Iron	Steel	Wood
(4)	Wood	Iron	Copper

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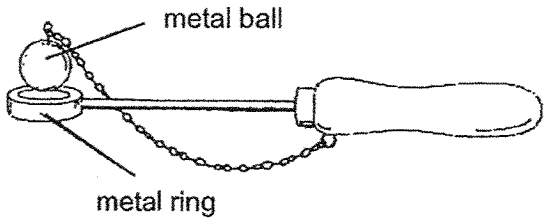
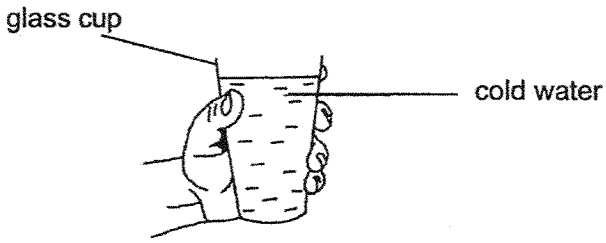
26. Farisya has a metal ball and a metal ring as shown below. The metal ball is unable to pass through the metal ring.



What could Farisya do to make the metal ball pass through the metal ring?

	Action	Explanation
(1)	Heat the metal ring	The metal ring expanded
(2)	Heat the metal ring	The metal ring contracted
(3)	Heat the metal ball	The metal ball expanded
(4)	Heat the metal ball	The metal ball contracted

27. Scott poured some cold water into a glass cup. When he picked up the cup, he noticed that the cup felt cold.



Which of the following correctly explained Scott's observations?

	Hand	Glass
(1)	Gained heat from the glass	Gained heat from the cold water
(2)	Gained heat from the glass	Lost heat to the cold water
(3)	Lost heat to the glass	Lost heat to the cold water
(4)	Lost heat to the glass	Gained heat from the cold water

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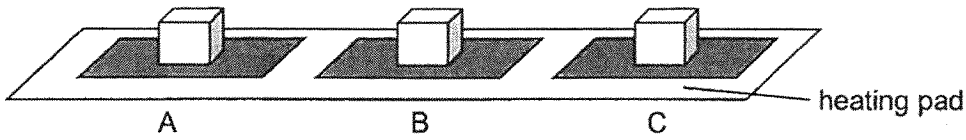
28. Elijah placed three ice cubes of the same size on three different materials, A, B and C. Each material was the same size and thickness. All three ice cubes and materials were then placed on a heating pad, which gave off heat.



The table below showed the results of the ice cubes after 5 minutes.

Material	Amount of time taken for the ice cube to melt completely (min)
A	5
B	2
C	3

Which of the following shows the correct order of materials, from poorest conductor of heat to best conductor of heat?

	Poorest conductor ⟶		Best conductor
(1)	A	B	C
(2)	A	C	B
(3)	B	C	A
(4)	C	B	A

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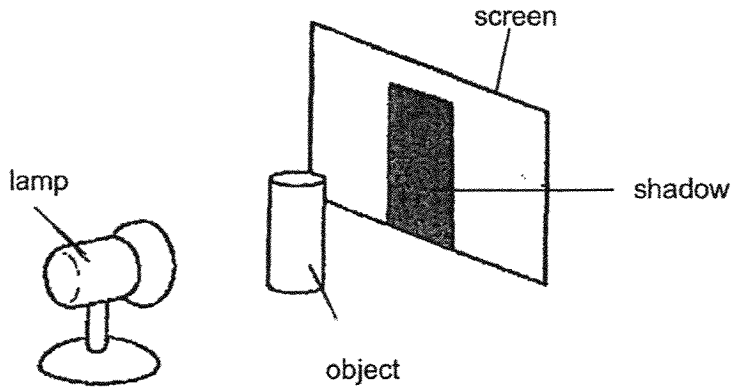
29. The experiment below was conducted in a dark room. The lamp was turned on and a shadow was seen as shown in the diagram. Study the diagram carefully and answer Questions 29 and 30.



Which of the following shows the material of the object and the screen?

	Material of object	Material of screen
(1)	metal	metal
(2)	clear plastic	wood
(3)	metal	clear glass
(4)	clear glass	clear plastic

30. How can the shadow of the object be made smaller?

(1) Use a stronger battery in the lamp.
(2) Move the object nearer to the screen.
(3) Move the lamp nearer to the object.
(4) Move the screen further from the object.

END OF BOOKLET A

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RED SWASTIKA SCHOOL

RED SWASTIKA SCHOOL

SCIENCE
2025 END-OF-YEAR EXAMINATION
PRIMARY 4

Name : _____ ( )

Class : Primary 4/_____

Date : 24 Oct 2025

BOOKLET B

10 Questions
40 Marks

In this booklet, you should have the following:
a. Page 17 to Page 29
b. Questions 31 to 40

	MARKS OBTAINED	POSSIBLE
BOOKLET A		60
BOOKLET B		40
TOTAL		100

Parent's Signature: _____

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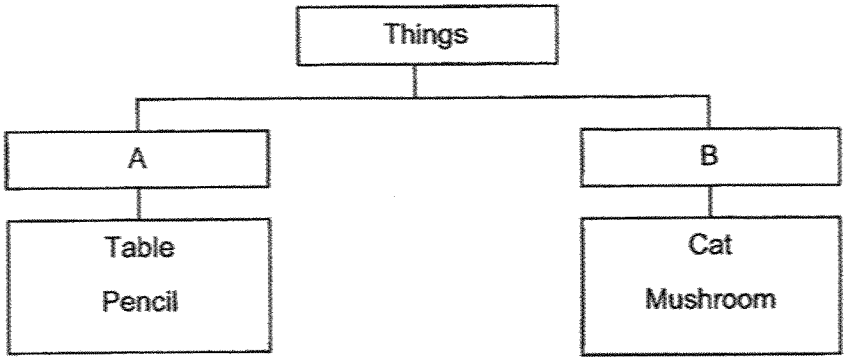
Answer all the questions in the spaces provided.

31. Study the classification chart below.



(a) What are suitable headings for A and B? (1m)

A: _____

B: _____

(b) Fill in the blanks with the names of the groups of living things that have the body covering stated. (2m)

Group of living thing	Body covering
i)	Feathers
ii)	Dry skin with scales

3

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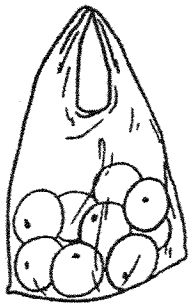
32. Christine carries some fruits in a clear plastic bag.

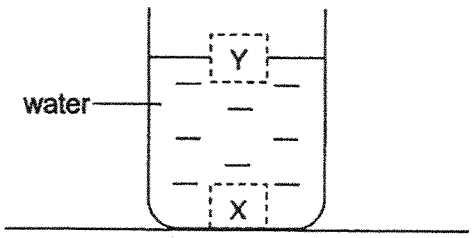


(a) Fill in the blanks using the correct words in the box.

light	strong	transparent	flexible

The plastic bag does not break even when the fruits are heavy. This shows that plastic is _____. (1m)

Tom placed two cubes, X and Y, in a beaker of water as shown below. The diagram shows the positions which the two cubes stayed at after a while.



(b) Fill in the blanks using the correct words in the box.

floats	~~sinks~~	expands	contracts

Cube Y _____ on water while Cube X _____ in water. (2m)

3

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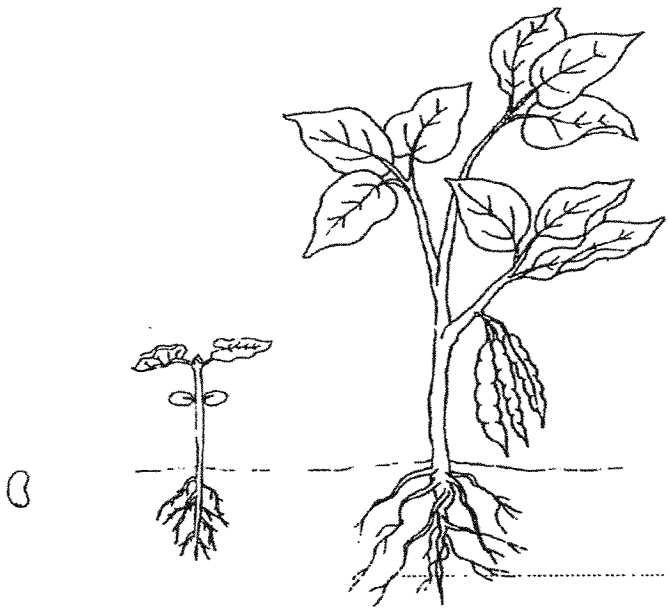
33. The diagram below shows the stages in the life cycle of a plant.



Choose the correct words from the box to answer the question below.

egg	seed	young plant	adult plant

Name stages X and Y in the life cycle of a plant. (2m)

X: _____

Y: _____

2

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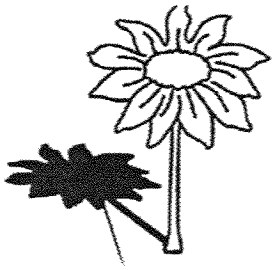
34. Study the diagrams below.

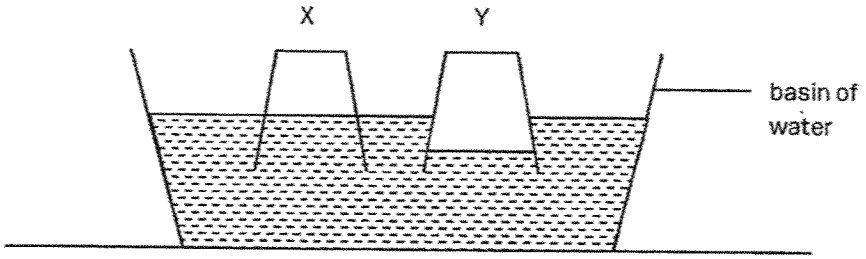


shadow

(a) Circle the correct answer. (1m)

A shadow (is / is not) a matter as it (occupies / does not occupy) space.

Alyssa had two cups, X and Y. One cup had a hole at the bottom while the other cup did not. She inverted both cups into a basin of water and the result was shown in the diagram below.



(b) Based on the diagram above, which cup, X or Y, did not have a hole at the bottom? (1m)

_____

(c) Explain your answer to part (b) above. (2m)

_____

_____

4

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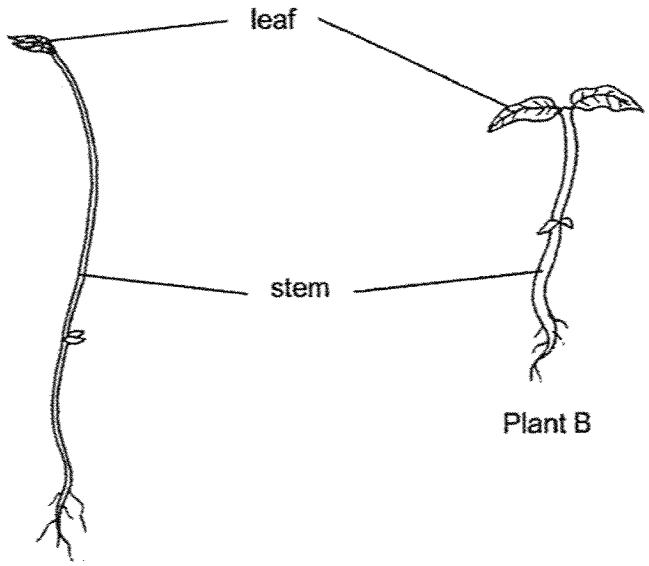
35. The diagram below shows two plants.



(a) What is one difference between the stems of the two plants? (1m)

The stem of plant B is _____ than the stem of plant A.

(b) Fill in the correct parts of a plant in the table. (2m)

Function of plant part	Plant part
It holds the plant upright.	
It obtains water for the plant.	

3

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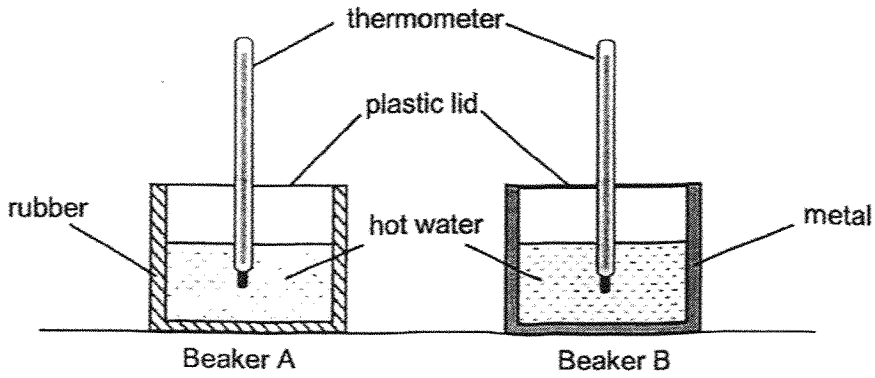
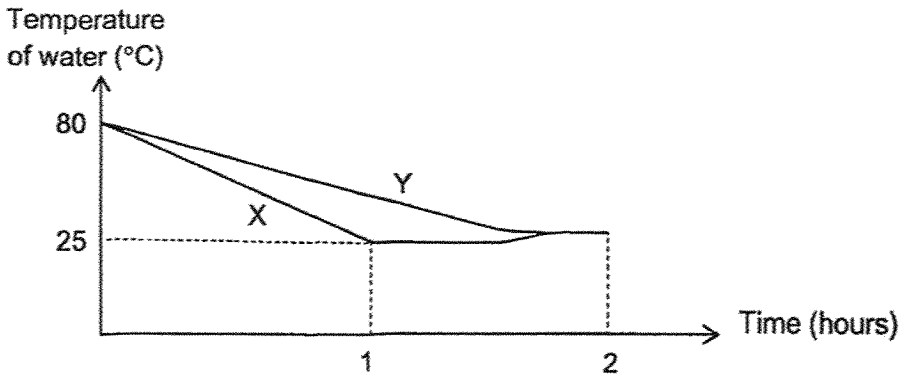
36. Yu Ting set up two beakers, A and B, as shown below. She covered beaker A with rubber and beaker B with metal. She filled both beakers with water at 80°C and left them in a classroom.



Yu Ting measured the temperature of the water in both beakers for 2 hours and recorded the results in the graph below.



(a) Lines X and Y represent the change in temperature in both beakers. Fill in the table below using 'A' and 'B' to show the correct beaker that matched the change in temperature. (2m)

Line	Beaker
X	
Y	

2

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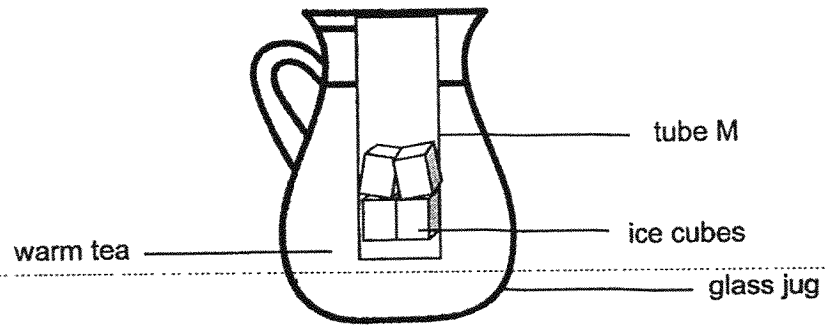
36. (b) Based on the graph, what is the temperature of the classroom? (1m)

_____

Yu Ting wanted to use the glass jug below to serve chilled tea. She put some ice cubes into tube M as shown below, to cool down the warm tea that she wanted to serve.



(c) Based on the results of her experiment, why is metal more suitable to make tube M? Explain your answer. (2m)

_____

_____

3

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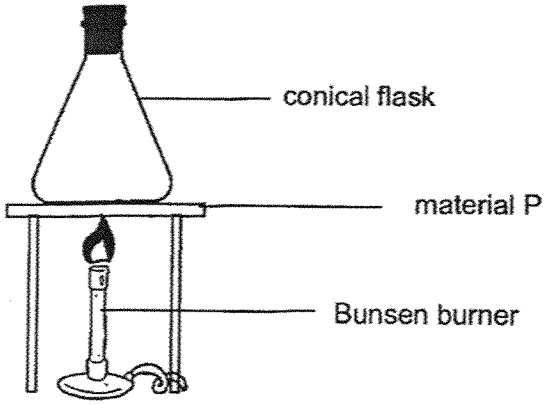
37. Faizal heated an empty conical flask with a stopper over a Bunsen burner as shown below. A sheet of material P is placed between the conical flask and the Bunsen burner. After 5 minutes, the stopper popped out.



(a) What is the heat source in the experiment above? (1m)

_____

(b) Explain why the stopper popped out after 5 minutes. (1m)

_____

_____

(c) Faizal changed the sheet to another material Q of the same size and same thickness and repeated the experiment. The stopper popped out in 3 minutes. What does this tell you about material Q as compared to material P? (1m)

_____

_____

3

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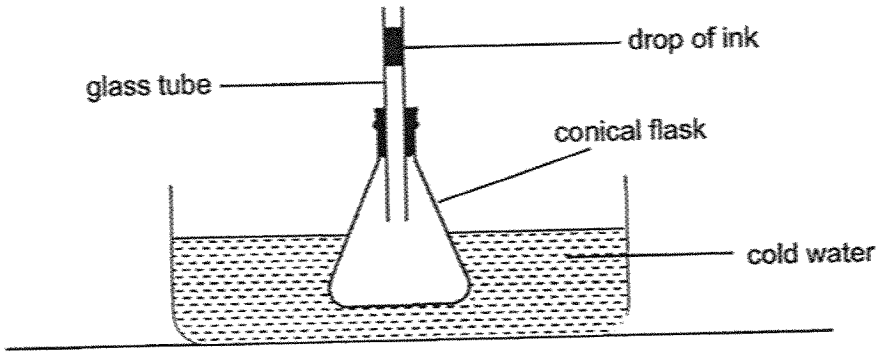
37. Using the same conical flask, Faizal attached a glass tube and placed a drop of ink inside the glass tube. The conical flask was then put inside a basin of cold water.



(d) What will happen to the drop of ink after some time? Give a reason for your answer. (2m)

_____

_____

2

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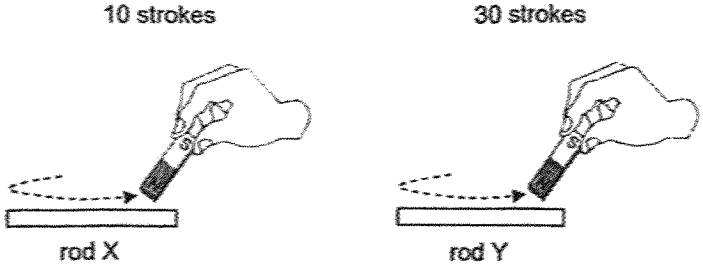
38. Two iron rods were stroked with the same magnet as shown in the diagram below.



Both rods became temporary magnets and were placed near a bowl of iron pins.

(a) Compare the number of iron pins that Rod X and Y will attract. (1m)

_____

(b) State 2 other variables that must be kept the same for this to be a fair experiment. (2m)

_____

_____

(c) Using only an iron nail and the same rods, X and Y, how can you find out which rod has greater magnetic strength? (2m)

_____

_____ 4

/5

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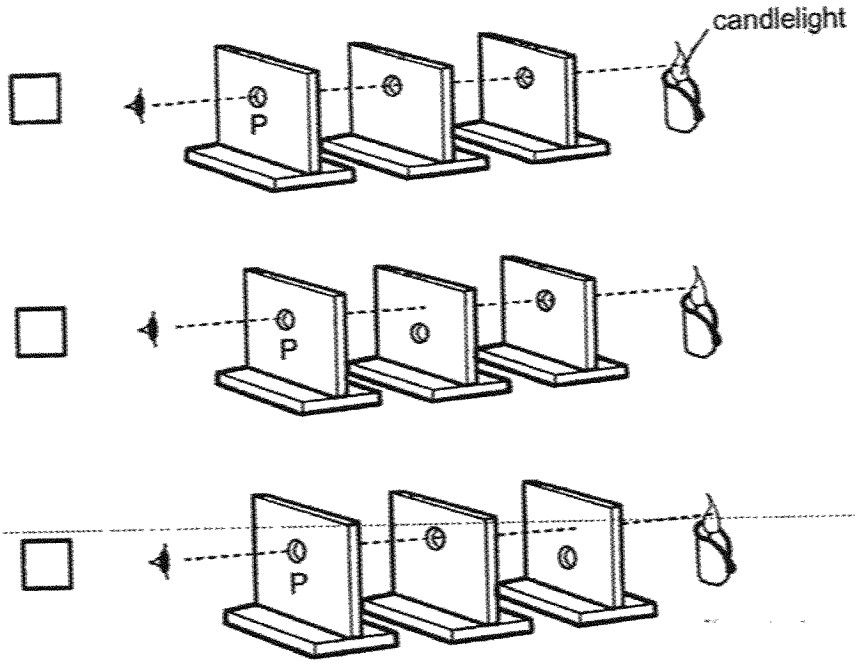
39. An experiment was conducted to find out how light travels. 3 pieces of wooden boards were placed as shown in the diagram.



(a) Tick the box for the setup which allows the candlelight to be seen when one looks through the hole at P. (1m)

(b) Which property of light does the experiment above show? (2m)

_____

_____

(c) Will the experiment be a fair one if the wooden blocks are changed to clear glass? Explain your answer. (2m)

_____

_____

5

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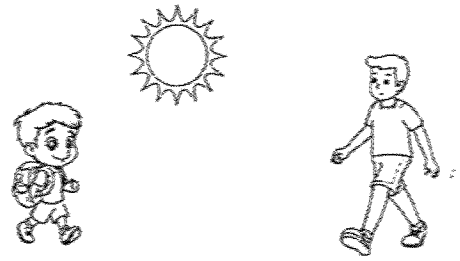
40. Harry was walking to school in the afternoon. He saw his friend, Tom.



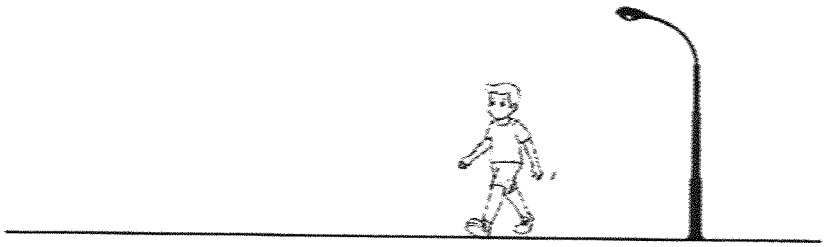
Harry Tom

(a) How could Tom see Harry? (2m)

_____

_____

Tom stood still at 3 different positions, A, B and C, as shown in the diagram below. He recorded the length of his shadow at each position.



The results are as shown in the table below.

Position	Length of shadow recorded (cm)
A	200
B	100
C	10

(b) Based on the results of the experiment, what is the relationship between the position of Tom from the lamp and the length of the shadow? (1m)

_____

_____

3

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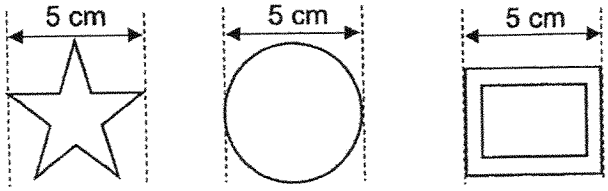
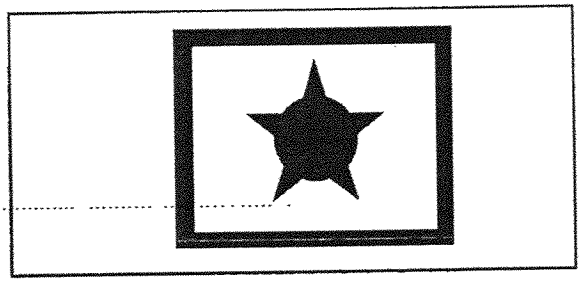
40. Tom set up an experiment to investigate the shadows formed by three objects, X, Y and Z.

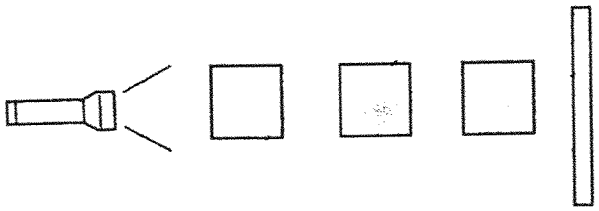


X Y Z

He placed the objects at different places in front of a torch and he saw the shadow below:



(c) Based on the shadow formed above, write 'X', 'Y' and 'Z' in the boxes below to show the correct positions of the objects. (1m)



(d) What will happen to the shadow observed on the screen when the torch was moved further away from the objects? (1m)

_____

_____

End of Booklet B
Please check your answers.

2

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SCHOOL : RED SWASTIKA SCHOOL

LEVEL : PRIMARY 4

SUBJECT : SCIENCE

TERM : 2025 END OF YEAR EXAMINATION

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
1	2	4	2	3	2	4	2	3	2
Q11	Q12	Q13	Q14	Q15	Q16	Q17	Q18	Q19	Q20
4	3	2	4	1	4	4	3	4	4
Q21	Q22	Q23	Q24	Q25	Q26	Q27	Q28	Q29	Q30
3	3	1	2	3	1	3	2	1	2

31(a)	**A:** Non-living things **B:** Living things
31(b)	i) **Birds** – Feathers ii) **Reptiles** – Dry skin with scales
32(a)	Strong
32(b)	Cube Y **floats** on water while Cube X **sinks** in water.
33	**X:** seed **Y:** young plant
34(a)	A shadow **is not** a matter as it **does not occupy** space.
34(b)	Y
34(c)	Without a hole, the air in cup **Y is unable to escape** (1m). The air inside **occupies space** and **prevents water from entering.**
35(a)	Thicker / shorter (Not accepted: stronger)
35(b)	It holds the plant upright – **Stem** It obtains water for the plant – **Roots**
36(a)	X – **B** Y – **A**
36(b)	25°C
36(c)	Metal is a **better conductor of heat** and the **tea will lose heat to the ice cubes faster.**
37(a)	Bunsen burner / the flame / the fire from the bunsen burner / the fire
37(b)	The air inside the conical flask **gains heat** (from Material P) and **expands.**
37(c)	Material Q is a **better conductor of heat.**
37(d)	The drop of ink will **fall** down the glass tube. The air in the flask **lost heat and contracted.**

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38(a)	**Key Idea: Make a magnet by the stroke method** Y will attract **more** pins than X. OR X will attract **fewer** pins than Y.
38(b)	**Key Idea: Identify changed and unchanged variables** Rod: length/ mass/ size/ thickness (1m) Magnet: Strength used/angle stroked (1m) Type of iron pins (1m)
38(c)	I can measure **the** distance **at which the rods are able to attract the iron nail.** The one that can attract the iron nail at a further **distance is the** stronger **one.**
39(a)	Tick 1st setup
39(b)	Light travels in a straight line
39(c)	No. Clear glass is **transparent/allows** most light **to pass through.** The light from the candle **will be able to** travel to the eye **at P** regardless of the position of the clear glass.
40(a)	Light from the sun falls on Harry and **gets** reflected **into Tom's eyes.**
40(b)	The nearer Tom is to a light source, the shorter the shadow
40(c)	Z, X, Y
40(d)	The shadow will become smaller

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