WA3

MARIS STELLA HIGH SCHOOL (PRIMARY)
2025 P4 EOY SCIENCE REVISION PAPER

Name: _____( )

Class: 4 _____

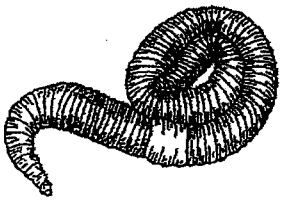
Total time for Booklets A & B: 1 h 45 mins

Booklet A:	_____ / 60
Booklet B:	_____ / 40
Total:	_____ / 100

For each question from 1 to 30, 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 (OAS). **(60 marks)**

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1 An earthworm coils itself up when touched.



This shows that the earthworm is a living thing because it can _____.

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

2 Which statement is true about most mammals?

(1) They can swim.
(2) They have wings.
(3) They produce milk.
(4) They have four legs.

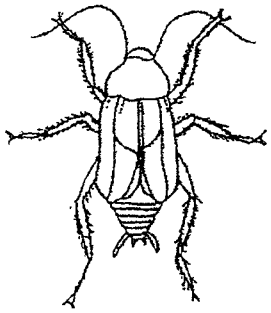
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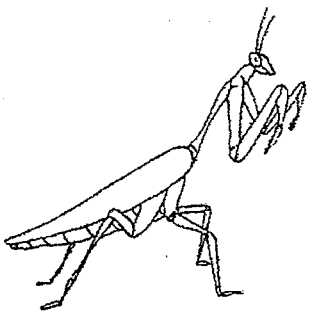
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3 Which one of the animals shown below is **not** an insect?

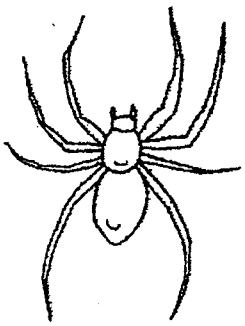
(1)



(2)



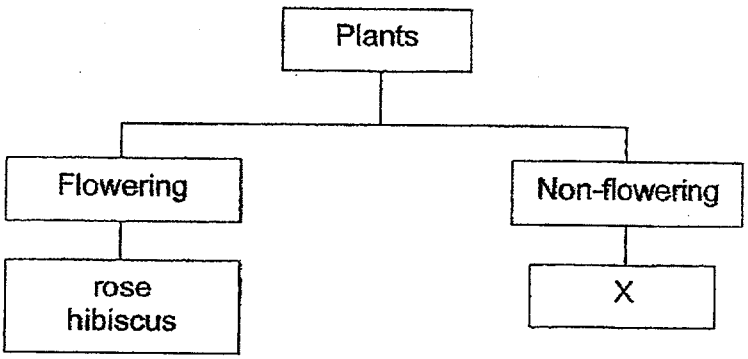
(3)



(4)



4 Study the classification chart below.



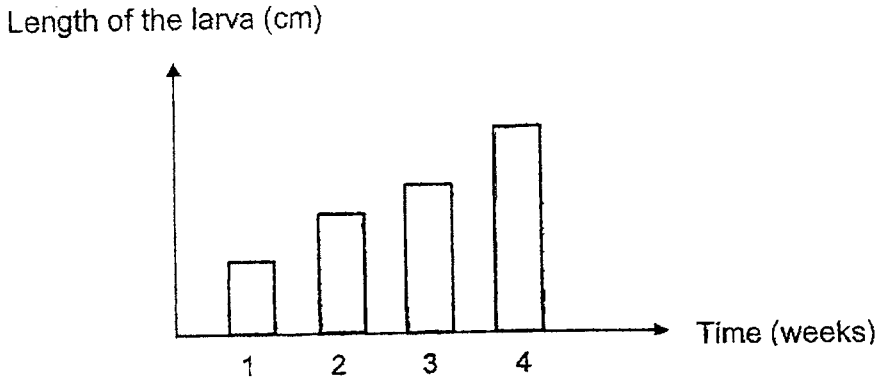
Which of the following can be placed in the box marked "X"?

(1) mushroom
(2) tomato plant
(3) mango plant
(4) bird's nest fern

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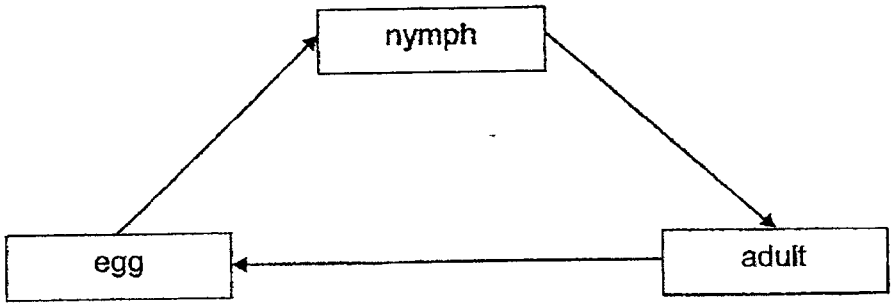
5 Nancy observed the larva of an insect over four weeks. She measured the length of the larva and plotted the graph shown below.



Which characteristic of living things is shown from the graph above?

(1) Living things grow.
(2) Living things reproduce.
(3) Living things respond to changes.
(4) Living things need air, food and water.

6 The diagram below shows the life cycle of an animal.



Which animal has the life cycle shown above?

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

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7 The table below shows the characteristic(s) of organisms A, B and C.
A tick (✓) indicates that the characteristic is present.

	A	B	C
Has a 3-stage life cycle	✓	✓	
Young resembles adult		✓	

Which one of the following is correct?

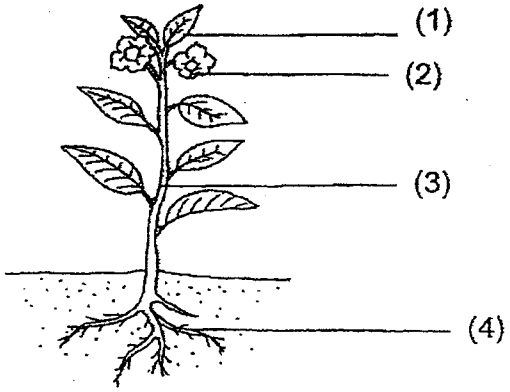
	A	B	C
(1)	cockroach	frog	butterfly
(2)	frog	butterfly	cockroach
(3)	butterfly	frog	cockroach
(4)	frog	cockroach	butterfly

8 Which one of the following is the main function of a leaf on a plant?

(1) takes in water
(2) keeps the plant upright
(3) makes food for the plant
(4) anchors the plant to the ground

9 The diagram shows a plant.

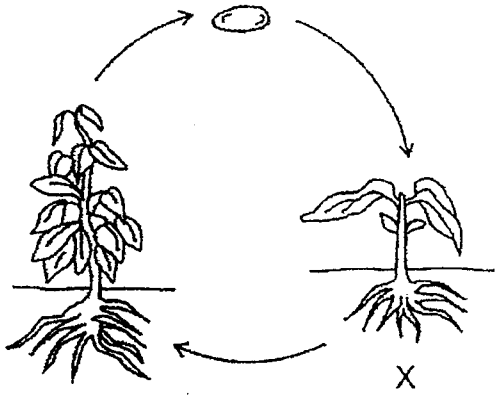
Which part represents the stem?



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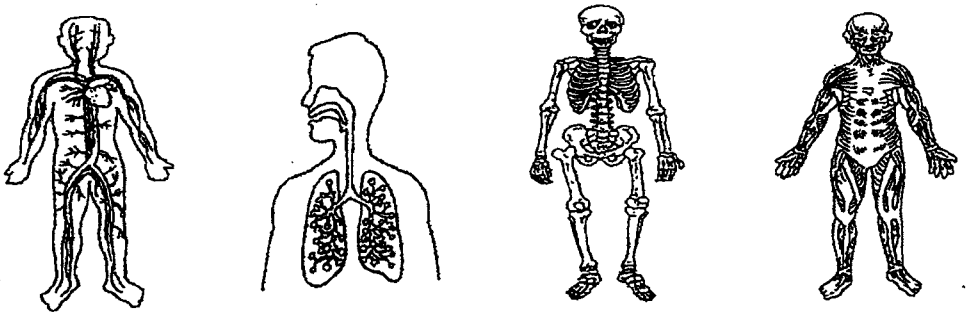
10 The diagram shows the life cycle of a plant.



What is the stage marked X?

(1) egg
(2) seed
(3) adult plant
(4) young plant

11 The diagrams below show the human body systems.



Which of the following body systems transports substances around our body?

(1) P
(2) Q
(3) R
(4) S

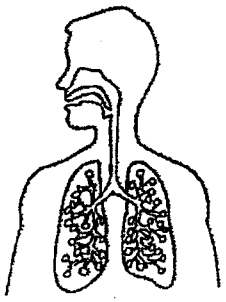
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12 In which part of the digestive system does digestion begin?

(1) gullet
(2) mouth
(3) stomach
(4) small intestine

13 Which human system does the diagram below represent?

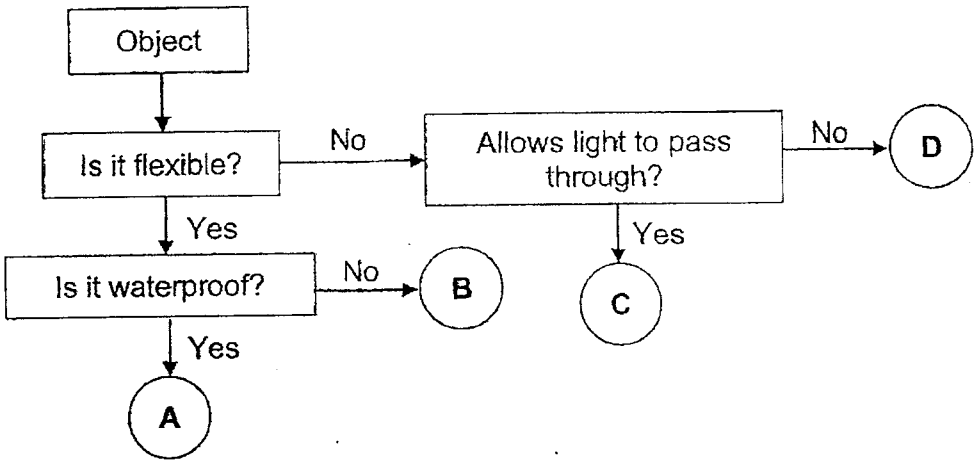


(1) skeletal system
(2) muscular system
(3) circulatory system
(4) respiratory system

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14 Study the flowchart below.



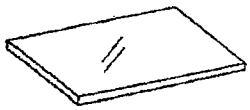
Which of the following best represents a clear glass container?

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

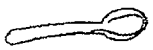
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15 Which one of the following objects can be bent easily without breaking?

(1) 

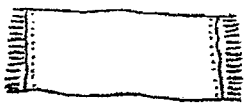
A sheet of glass

(2) 

A wooden spoon

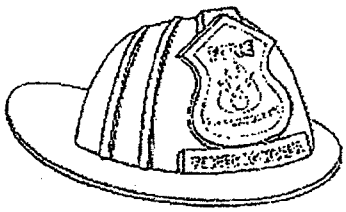
(3) 

A metal ruler

(4) 

A towel

16 Firemen wear the helmet as shown when they put out fires.



Based on the properties shown below, which material is most suitable for making the firemen's helmet?

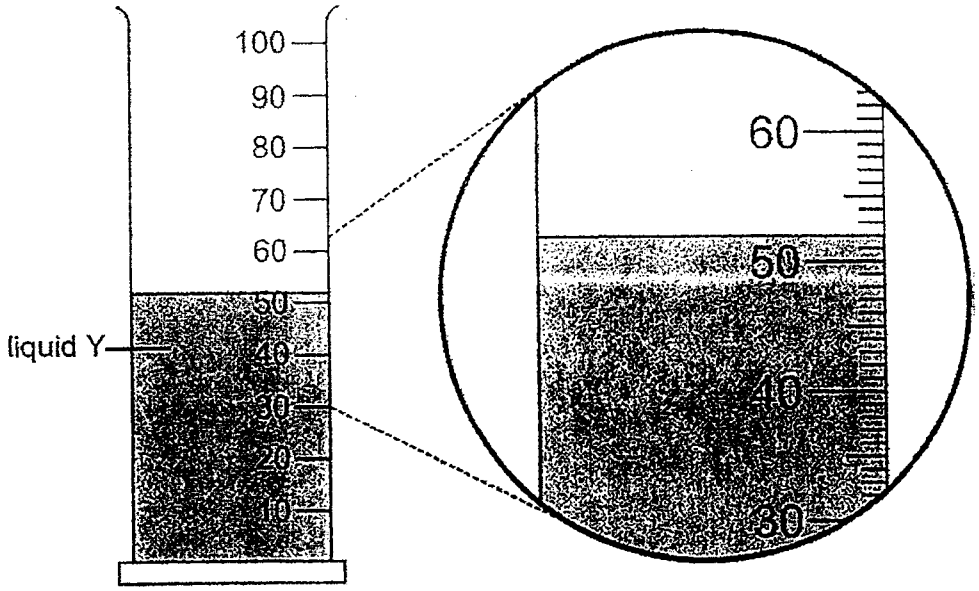
Key
√ : yes
X : no

	Material	Property			
		strong	flexible	waterproof	good conductor of heat
(1)	A	x	√	x	√
(2)	B	√	x	√	x
(3)	C	√	√	√	x
(4)	D	√	x	√	√

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17 The diagram below shows a measuring cylinder with liquid Y.



Based on the diagram above, what is the volume of liquid Y?

(1) 50 ml
(2) 52 ml
(3) 62 ml
(4) 68 ml

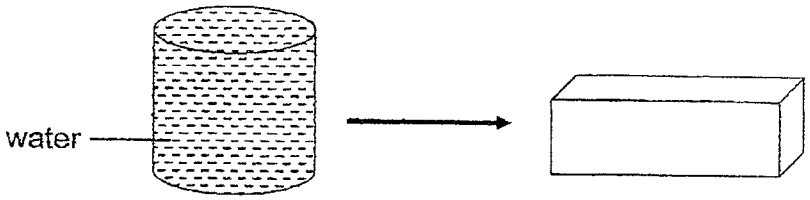
18 Which one of the following properties is true for both air and a pencil?

(1) They can be seen.
(2) They take up space.
(3) They have fixed shapes.
(4) They have fixed volumes.

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19 Nathan has two containers, A and B, of the same volume. He filled container A to the brim with water as shown in the diagram below.

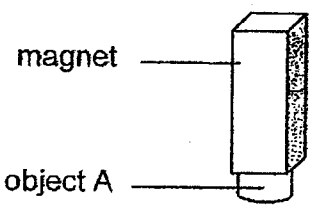


When he poured the water from container A to B, he observed that water filled container B to the brim.

Based on his observation, what can he conclude about water?

(1) Liquid can be compressed.
(2) Liquid has a definite shape.
(3) Liquid has a definite volume.
(4) Liquid has no definite volume.

20 Object A is attracted to a magnet as shown in the diagram below.



Object A is made of _____.

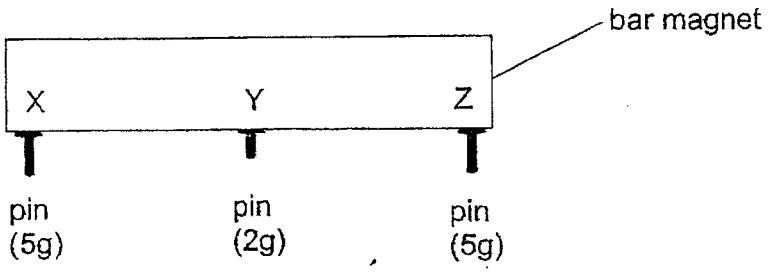
(1) steel
(2) wood
(3) rubber
(4) plastic

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21 Linda has a bar magnet. She placed a pin at different parts of the magnet, X, Y and Z. She replaced each pin with a heavier pin until she found the heaviest pin that could be attracted without dropping.

The results are as shown below.



She made the following statements.

A X is the North pole of the magnet.

B The pins are made of magnetic material.

C Magnetism is strongest at X and Z.

Which of the statements can be concluded from her results?

(1) A and B only

(2) A and C only

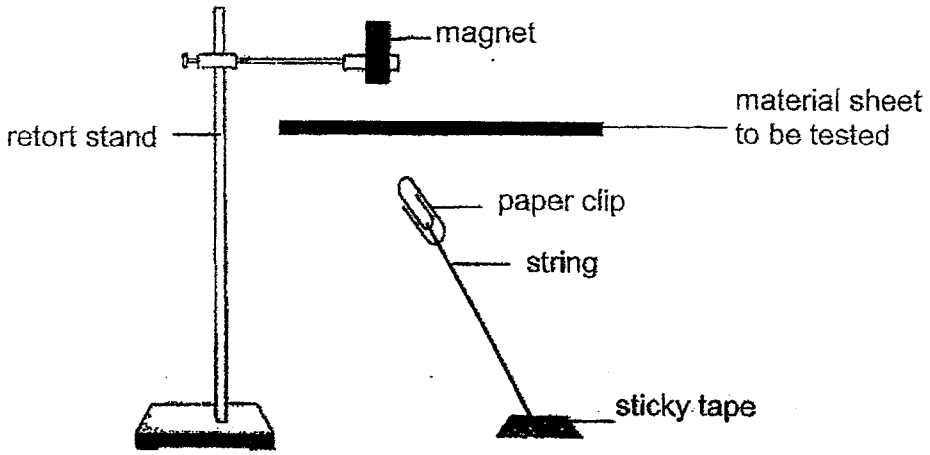
(3) B and C only

(4) A, B and C

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22 Mabel wants to use the set-up below to find out if magnetism can pass through paper and copper.



She has sheets A, B, C and D with properties as shown below.

Sheet	Material sheet is made of	Thickness of material (cm)
A	paper	0.1
B	copper	0.1
C	paper	0.3
D	copper	0.2

Which two sheets should she use to ensure a fair experiment?

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

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23 Steel bar AB was magnetised using the stroke method as shown in Diagram 1. Diagram 2 shows the poles of bar AB after it was magnetised.

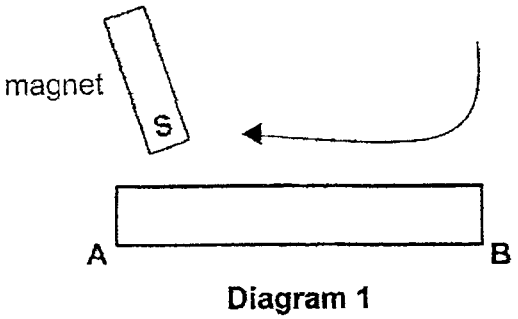


Diagram 1

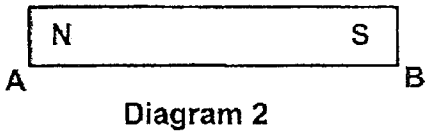
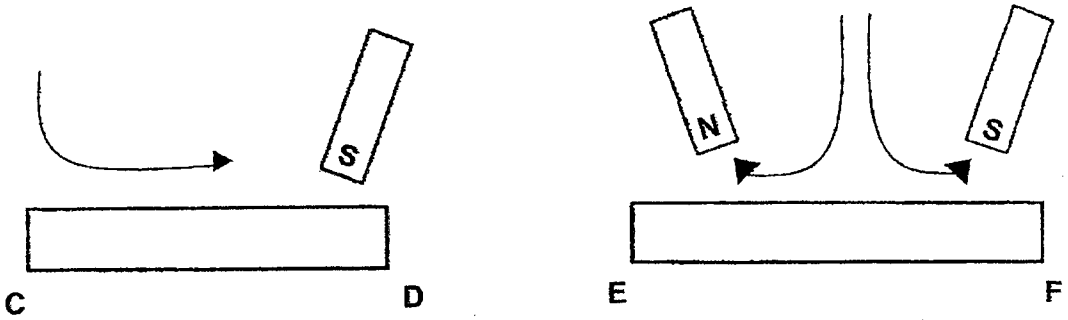


Diagram 2

Steel bars CD and EF were magnetised as shown in the diagrams below.



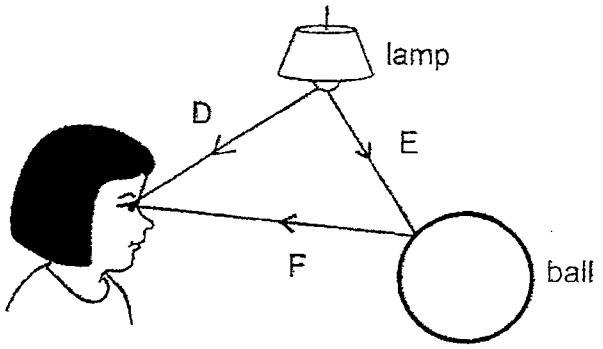
Which of the following shows the magnetic poles of bars CD and EF?

(1)	N S C D	N S E F
(2)	N S C D	S N E F
(3)	S N C D	N S E F
(4)	S N C D	S N E F

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24 Kate is looking at a ball as shown in the diagram below.

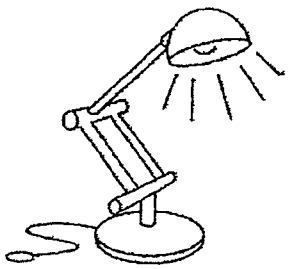


Which arrow(s) show the direction of light that allows Kate to see the ball?

(1) D only
(2) E only
(3) D and F only
(4) E and F only

25 Which one of the following is **not** a source of light?

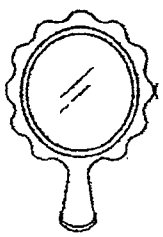
(1)



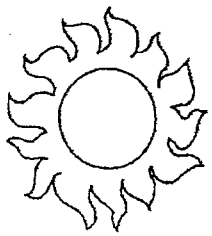
(2)



(3)



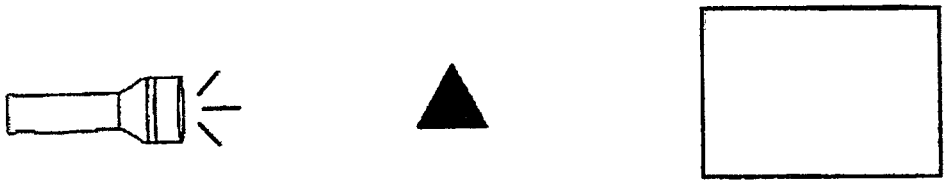
(4)



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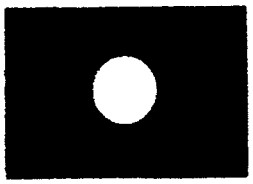
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26 The diagram below shows light shining on a wooden toy.

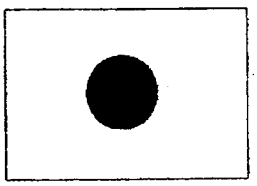


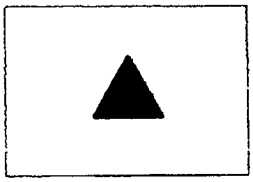
torch wooden toy screen

Which of the following would likely be seen on the screen when the torch is switched on?

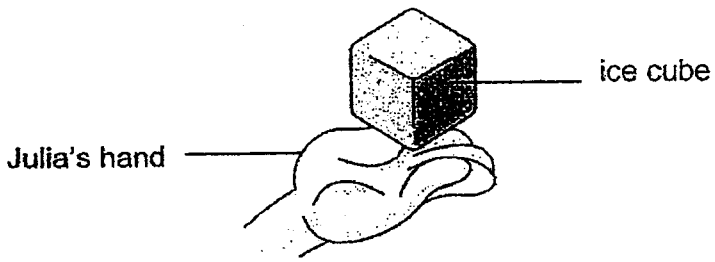
(1) 

(2) 

(3) 

(4) 

27 Julia held an ice cube.



Which one of the following best explains why her hand felt cold after a while?

(1) Julia's hand lost heat to the ice cube.

(2) Julia's hand gained heat from the ice cube.

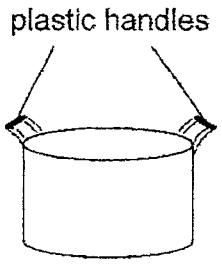
(3) The ice cube lost heat to the surrounding air.

(4) The ice cube gained heat from the surrounding air.

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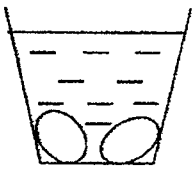
28 Dominic boiled some water in the pot as shown below.



He is able to hold the pot of hot water using the plastic handles because plastic is a _____.

(1) light material
(2) flexible material
(3) poor conductor of heat
(4) good conductor of heat

29 Mrs Tay wanted to investigate if the amount of heat will affect how fast eggs are cooked. She prepared one of the set-ups as shown below.



Set-up A

?

Set-up B

Which of the following must she keep the same for Set-up B?

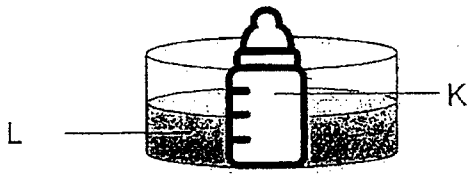
A Number of eggs
B Temperature of water
C Material of container

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

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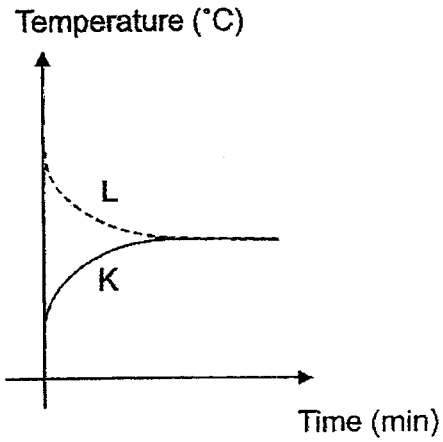
30 A bottle of hot milk was placed in a container of cold water.



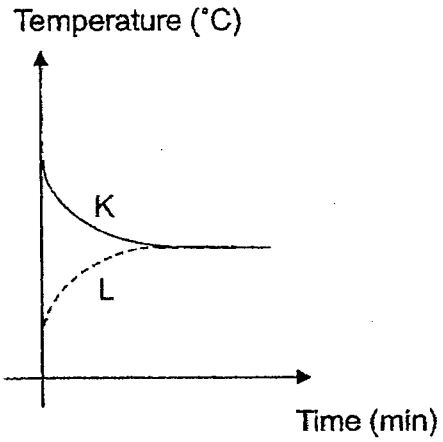
The temperatures of hot milk K and cold water L were recorded every minute for one hour.

Which of the following graph correctly shows the temperature of K and L?

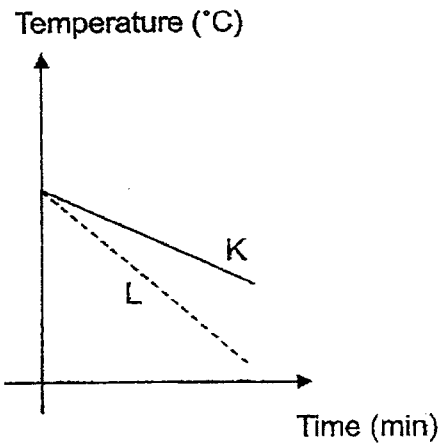
(1)



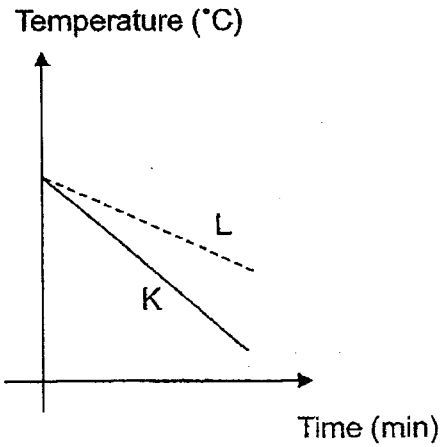
(2)



(3)



(4)



End of Booklet A

Go on to Booklet B

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2025 P4 EOY SCIENCE REVISION PAPER

Booklet B: _____ / 40

Name: _____ ( )

Class: 4 _____

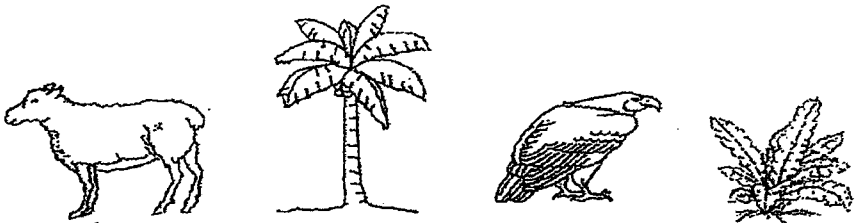
Total time for Booklets A & B: 1 h 45 mins

For questions 31 to 42, write your answers in this booklet. The number of marks available is shown in brackets [ ] at the end of each question or part question.

(40 marks)

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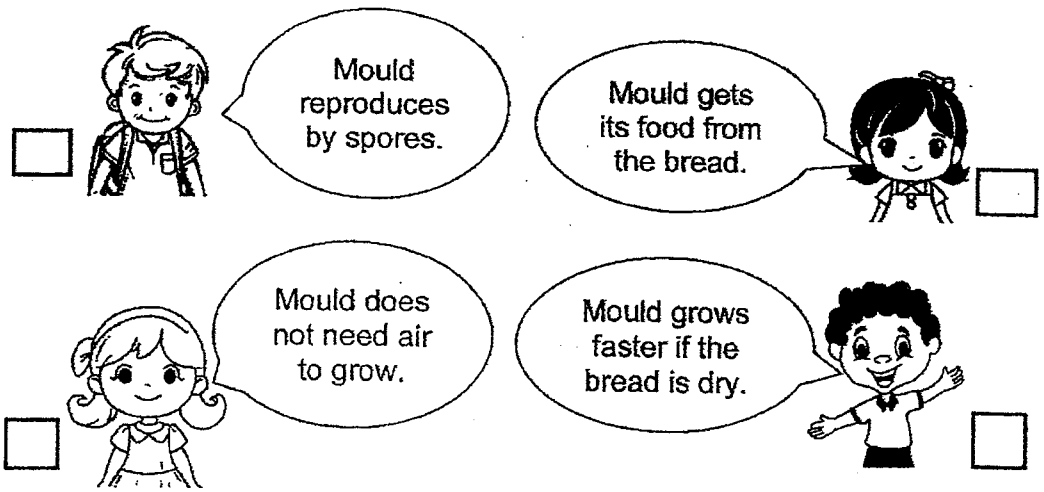
31 Classify the following living things under the correct headings. [2]



(a)

Animals	Plants

(b) Four pupils saw mould growing on a piece of bread and made a statement each. Identify the **two** pupils who are correct by ticking (√) the boxes. [1]

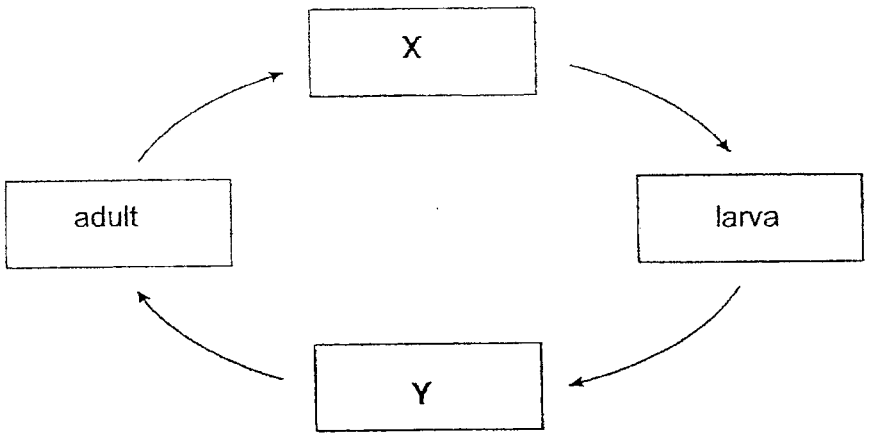


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32 The diagram below shows the stages in the life cycle of a butterfly.



Life cycle of a butterfly

(a) Choose the correct words from the box below to name the stages X and Y. [2]

caterpillar	egg	pupa	seed

X: _____ **Y:** _____

(b) Name an animal that has the same number of stages in its life cycle as the butterfly. [1]

_____

(c) State a difference between the life cycle of a butterfly and the life cycle of a frog. [1]

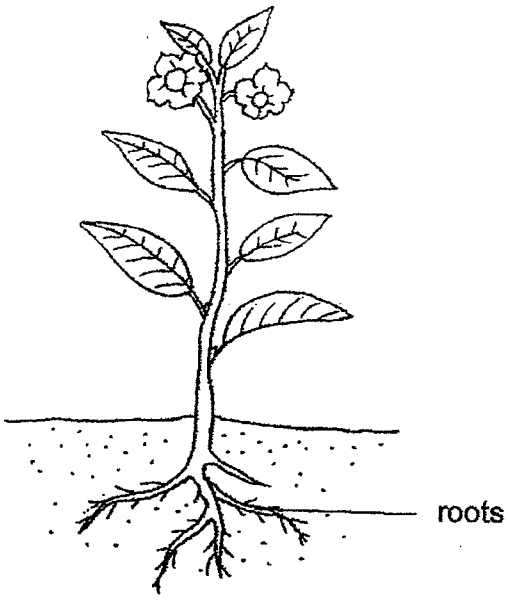
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33 The diagram shows a plant.



(a) Name one substance that the roots of the plant take in from the soil. [1]

_____

(c) Besides taking in substances from the soil, state another function of the roots. [1]

_____

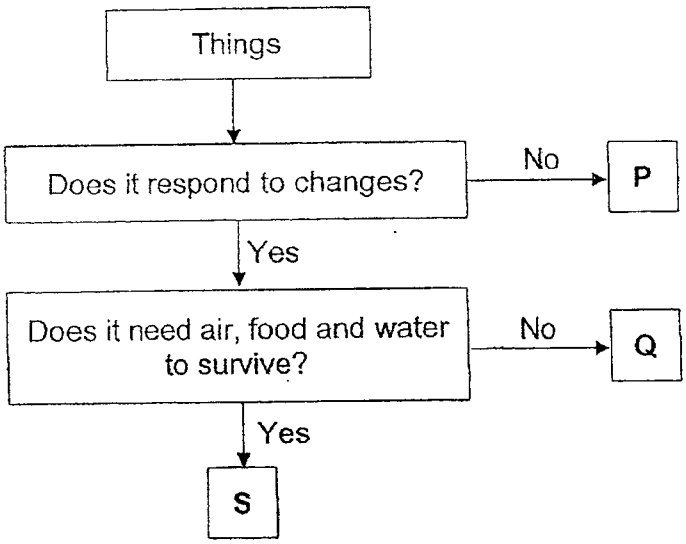
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34 Study the flowchart below.



Classify P, Q and S into living and non-living things. [2]

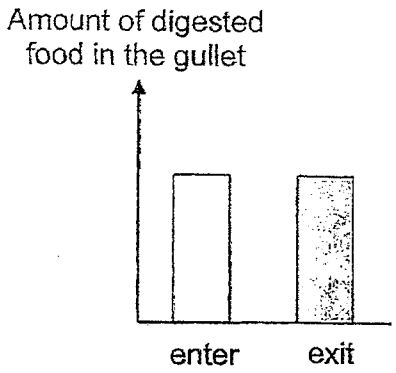
Living things	Non-living things

	2

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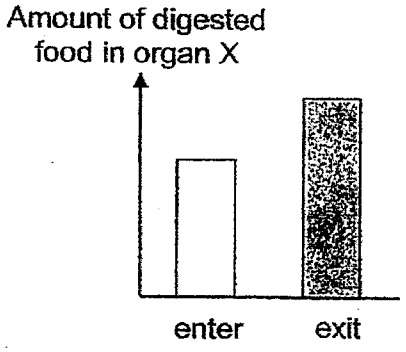
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35 The graph below represents the amount of digested food entering and exiting the gullet.



(a) Why was there no change in the amount of digested food entering and exiting the gullet? [1]

Study the graph below.



(b) Circle the correct answer.

The amount of digested food exiting organ X was (more than / less than / the same as) the amount of food entering it. [1]

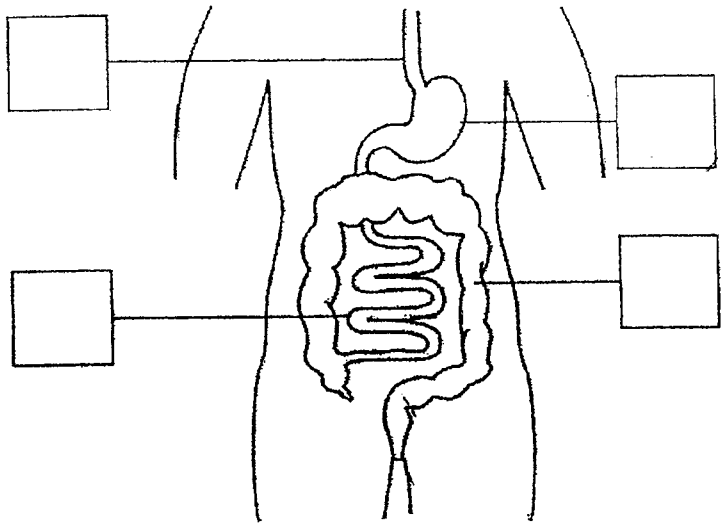
(c) What could organ X be? [1]

3

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(d) The diagram shows part of the human digestive system.
Tick (√) one of the boxes to show where the stomach is. [1]

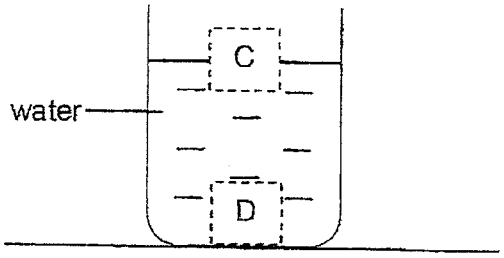


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36 Darren placed two different blocks, C and D, into a beaker of water as shown in the diagram below.



(a) Choose the correct phrases from the box below to fill in the blanks. [1]

contracts in	expands in	floats on	sinks in

This shows that block C _____ water and block D _____ water.

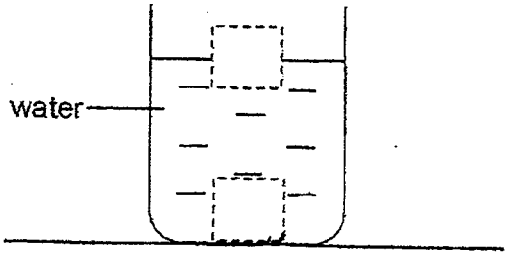
(b) The diagram below shows an anchor. Which block, C or D, will be more suitable to make the anchor show below? Give a reason for your answer. [1]



_____

(c) Darren removed blocks C and D from the beaker of water. He then placed a solid metal block into the same beaker of water.

Mark an 'X' in the box where the solid metal block will be found. [1]



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37 The diagram below shows a cup of hot tea.

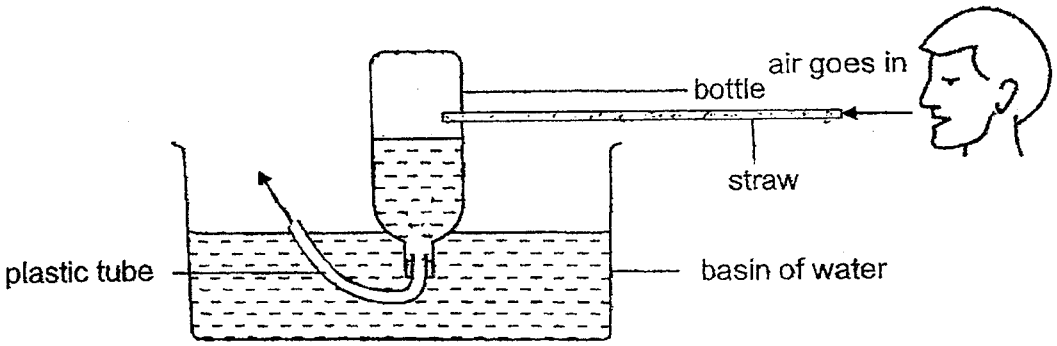


Circle the correct state for the following items.

(a) The tea is in the (solid / liquid / gas) state. [1]

(b) The cup is in the (solid / liquid / gas) state. [1]

Ryan set up an experiment as shown below. He took some deep breaths and blew as much air as he could into the bottle through the hole using the straw.



(c) What will happen to the water level in the bottle after he blew air into the bottle? [1]

_____

(d) Explain your answer in **(c)**. [1]

_____

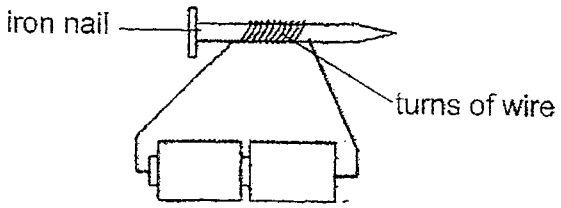
_____

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38 Paul conducted an experiment using the set-up shown below. He repeated the experiment with only 1 battery. The table below shows the number of paper clips attracted for both set-ups P and R.



Set-up	Number of batteries	Number of turns of wire	Number of paper clips attracted
P	1	15	10
R	2	15	25

(a) What is the relationship between the number of batteries and the number of paper clips attracted by the electromagnet? [1]

_____

_____

(b) Besides changing the number of batteries, what is another way to increase the magnetic strength of the electromagnet? [1]

_____

_____

(c) Other than the electrical method, state another method to make a temporary magnet. [1]

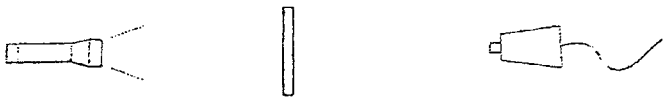
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39 Edward conducted an experiment as shown below.



torch material light sensor

The amount of light detected by the light sensor when different materials were placed between the torch and the light sensor is recorded below.

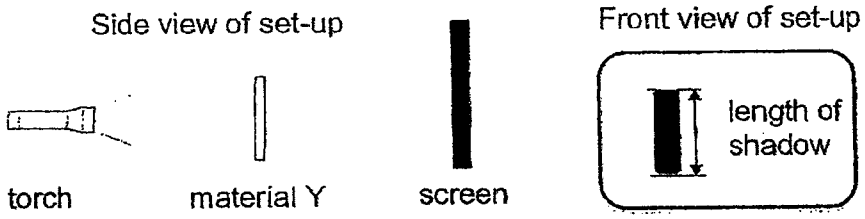
Material	No material	X	Y
Amount of light detected (lux)	500	200	0

(a) Based on the above results, state the properties of materials X and Y. [2]

Material X: _____

Material Y: _____

Material Y is then placed between a torch and the screen as shown in the diagram below.



(b) Describe how Edward can shift the position of the screen to obtain a smaller shadow. [1]

_____

(c) What will the observation on the screen be if material X was used instead of the material Y? Explain your answer. [1]

_____

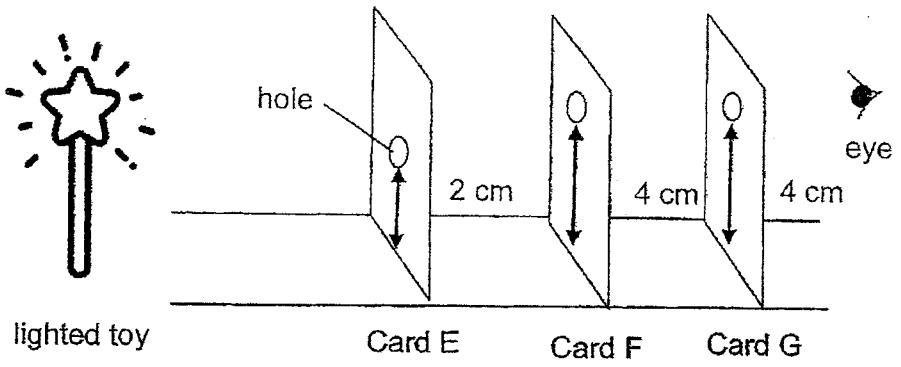
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40 Celeste set up an experiment with a toy and three card, E, F and G, in a dark room as shown below. There was a hole on each card.



(a) Celeste looked through the holes but discovered that she was unable to see the toy. Give a reason why Celeste was unable to see the toy. [1]

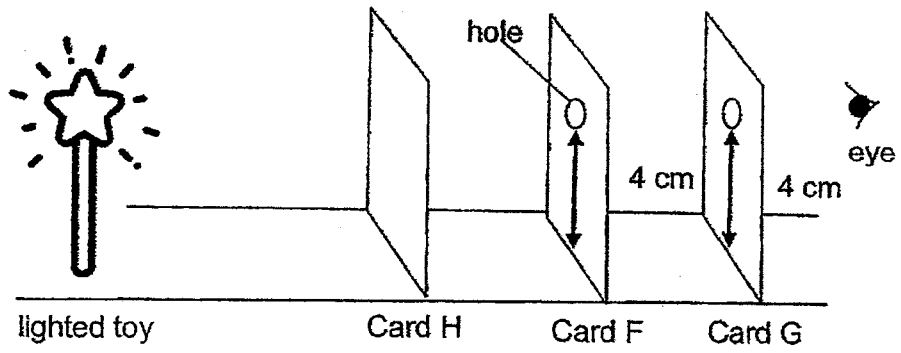
_____

_____

(b) State a property of light that is demonstrated in this experiment. [1]

_____

Celeste replaced card E with card H of the same size but with no hole on it as shown below.



Although there was no hole on card H, Celeste was able to see the toy clearly.

(c) Name the property of card H that allows Celeste to see the toy. [1]

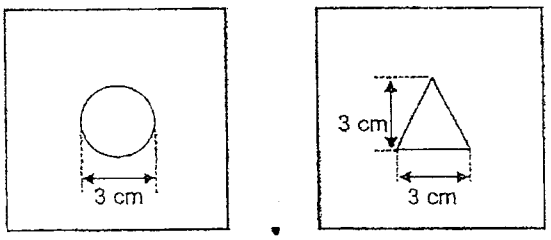
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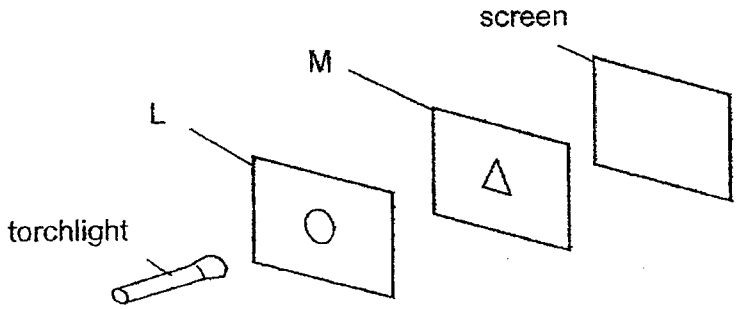
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Celeste did another experiment with two materials with different shapes cut in the middle. Only one material allows light to pass through it.

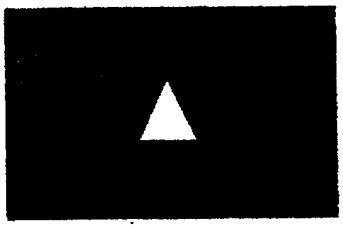


sheet L sheet M

She conducted the experiment in the dark room using the set-up below.



The image below was observed on the screen after the torchlight was switched on.



(d) For each statement, put a tick (✓) in the correct box. [1]

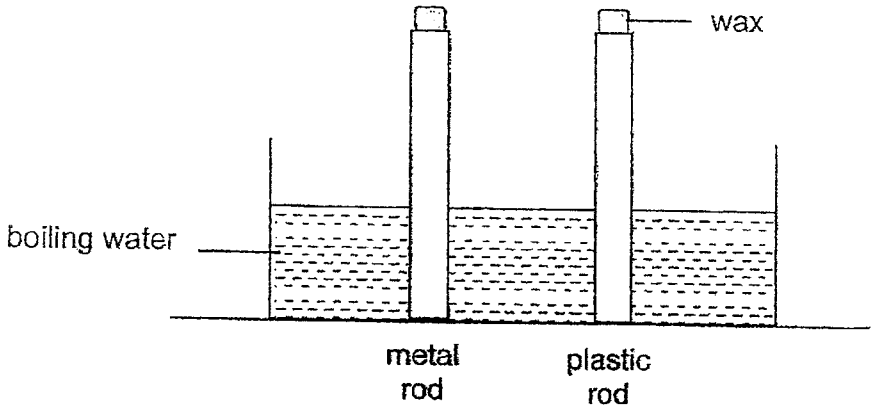
	Statement	True	False	Not possible to tell
(i)	L allows light to pass through.			
(ii)	The screen allows light to pass through it.			

	1

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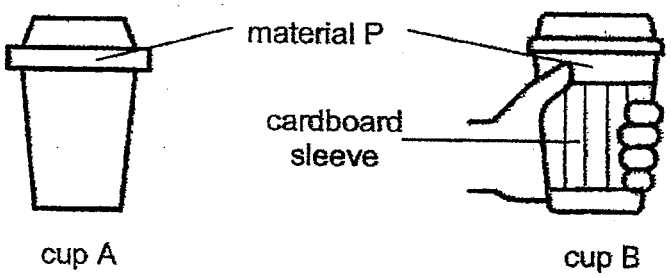
41 James placed a metal rod and a plastic rod in a tank of boiling water as shown below. Equal amounts of wax were put on both rods.



(a) What would he observe and why? [1]

The wax on the metal rod melted (faster / slower) than the wax on the plastic rod as metal is a (better / poorer) conductor of heat than plastic.

James continued the experiment with two cups, A and B, made of material P. He poured an equal amount of hot water into each cup. Cup A was too hot to hold but he could hold cup B easily as shown.



(b) Explain why James can hold cup B easily. [2]

_____

_____

	3

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42 (a) State what is temperature. [1]

Gabriel placed a thermometer through a hole in the centre of an iron block as shown in diagram 1. He recorded the temperature of the iron block. Then, he placed the iron block with the thermometer under the Sun. The graph in diagram 2 shows his readings.

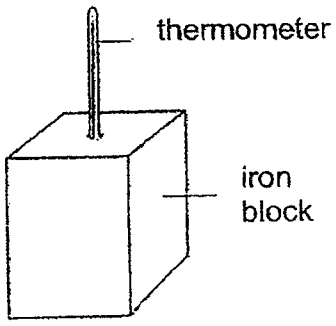


Diagram 1

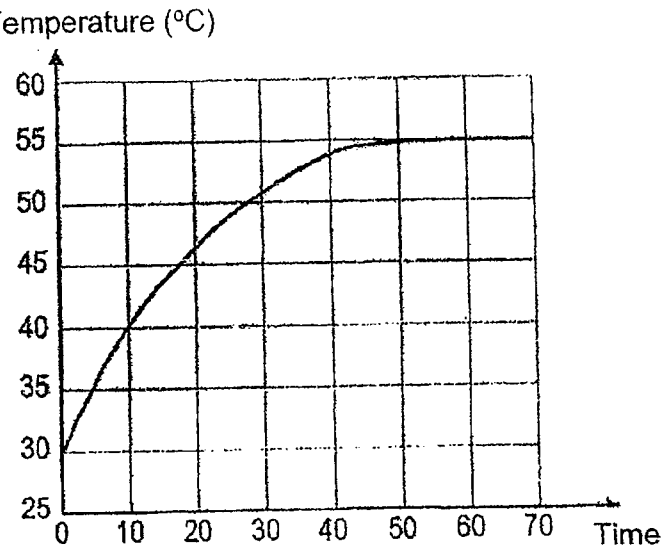


Diagram 2

(b) Based on the graph, what is the temperature of the iron block at the start of the experiment? [1]

(c) Based on the graph, what happens to the temperature of the iron block from 0 to 50th minute? [1]

(d) State another effect of heat gain on the iron block. [1]

4

END OF BOOKLET B

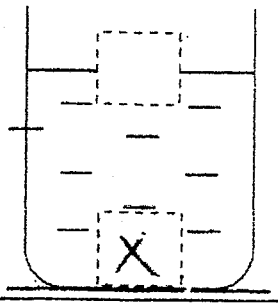
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YEAR : 2025
LEVEL : PRIMARY 4
SCHOOL : MARIS STELLA HIGH SCHOOL (PRIMARY)
SUBJECT : SCIENCE
TERM : END OF YEAR EXAMINATION

(BOOKLET A)

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

(BOOKLET B)

Q31	a)	Animals : Sheep and Eagle Plants : Coconut tree and fern
	b)	Mould reproduces by spores. Mould gets its food from the bread.
Q32	a)	X : egg Y : pupa
	b)	A mosquito
	c)	There are 4 stages life cycle of a butterfly while there are 3 stages life cycle of a frog.
Q33	a)	Water
	b)	The roots hold the plant firmly on the ground.
Q34	Living things : S Non-living things : P and Q	
Q35	a)	No digestion is taking place.
	b)	More than
	c)	Stomach
	d)	Stomach ☑
Q36	a)	This shows that block C floats on water and block D sinks in water.
	b)	Block D. It sinks in water and is suitable to put down the anchor.
	c)	

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Q37	a)	Liquid
	b)	Solid
	c)	it will decrease.
	d)	Air occupies space and pushes the water out by the plastic tube.
Q38	a)	The greater the number of batteries used, the greater the paper clips attracted.
	b)	Coil more wires around the iron nails.
	c)	Stroking method
Q39	a)	Material X : Allows some light to pass through Material Y : Does not allow any light to pass through
	b)	Move the torch further to Material Y.
	c)	A lighter shadow, Object X block some light.
Q40	a)	Light travels in a straight line. The holes of Card E and F are not aligned. Thus, the light could not be seen.
	b)	Light travels in a straight line.
	c)	Card H allows light to pass through.
	d)	i) True ii) False
Q41	a)	Faster Better
	b)	The cardboard is a poor conductor of heat. Heat is lost slower from hot water to the sleeve to the hands.
Q42	a)	Temperature is a measurement of how hot or cold an object is.
	b)	30°C
	c)	The temperature increased.
	d)	Iron block expands.

END

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