



MARIS STELLA HIGH SCHOOL (PRIMARY)

SEMESTRAL ASSESSMENT 2

SCIENCE

2 NOVEMBER 2012

BOOKLET A

NAME: _____ ()

CLASS: Primary 4 ()

30 questions

60 marks

Total Time for Booklets A & B: 1 h 30 min

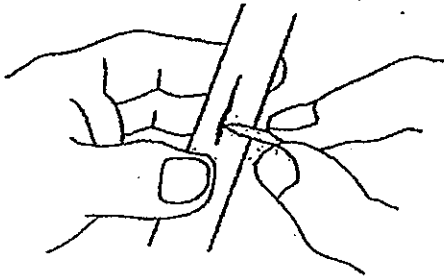
DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

FOLLOW ALL INSTRUCTIONS CAREFULLY.

PART I (60 marks)

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). (30 x 2 marks)

Alice can easily scratch a wooden stick with an iron nail.



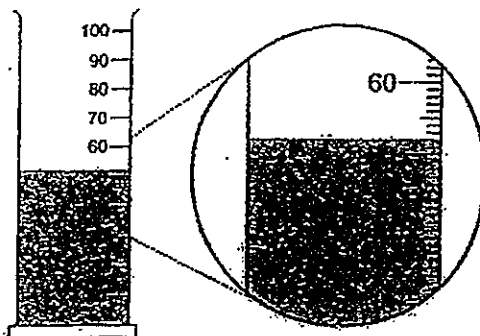
This shows that the iron nail is _____ than the wooden stick.

- (1) harder
- (2) heavier
- (3) stronger
- (4) more flexible

Which one of the following substances does not have a fixed shape?

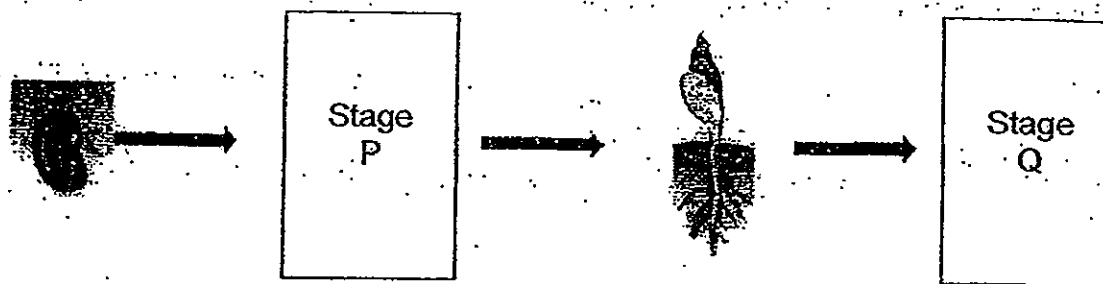
- (1) plasticine
- (2) pencil
- (3) stone
- (4) wind

In the diagram, what is the volume of liquid Y?



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

P and Q.



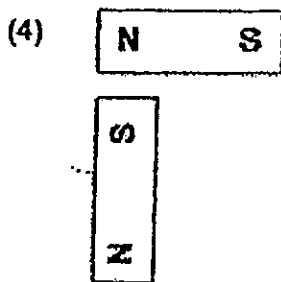
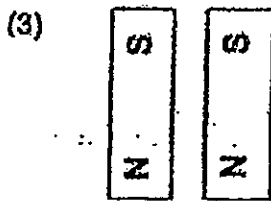
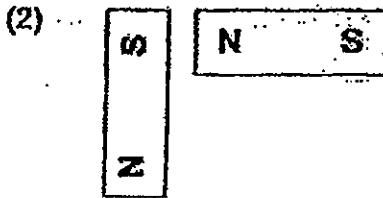
Which one of the following shows the correct stages for P and Q?

	Stage P	Stage Q
(1)		
(2)		
(3)		
(4)		

5. What is the main function of the large intestine?

- (1) It allows digested food to be passed into the blood.
- (2) It removes undigested food out of the body.
- (3) It allows water to be passed into the blood.
- (4) It removes digested food from the body.

In which one of the following will the two magnets push each other away?



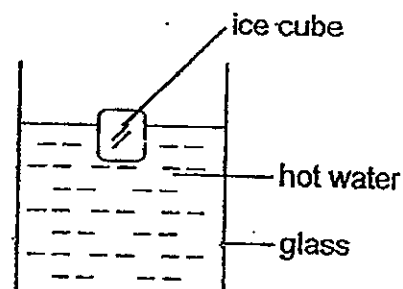
Which one of the following is NOT a source of heat?

- (1) A candle flame
- (2) A woollen cap
- (3) A lighted bulb
- (4) The Sun

Karim places an ice cube into a glass of hot water.

Which one of the following is correct?

- (1) The ice cube loses heat to hot water.
- (2) The ice cube does not gain or lose heat.
- (3) The hot water loses heat to the ice cube.
- (4) The hot water gains heat from the ice cube.

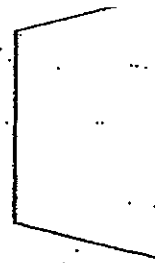




torch



wooden cone



screen

Which one of the following shows the shadow of the wooden cone on the screen?

(1)



(2)



(3)



(4)



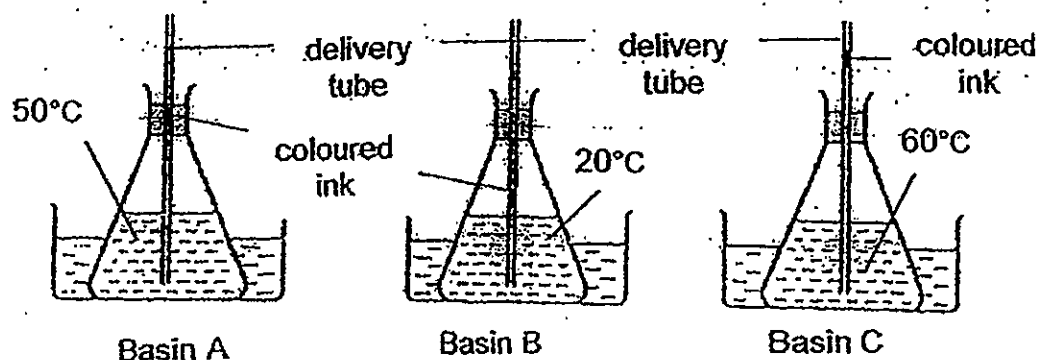
10. A snail hides itself in its shell when touched.



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

- (1) grow
- (2) breathe
- (3) lay eggs
- (4) respond to changes around it

Jonathan set up the experiment as shown below, using three identical conical flask set-ups. The temperatures of the water in each conical flask and basin were different. The coloured ink drop was at different height in each delivery tube at the start of the experiment.



After a while, Jonathan observed that the drop of ink decreased in height for Basin C, while the drop of ink rose more for Basin B than for Basin A.

What is the likely temperature of the water in each basin?

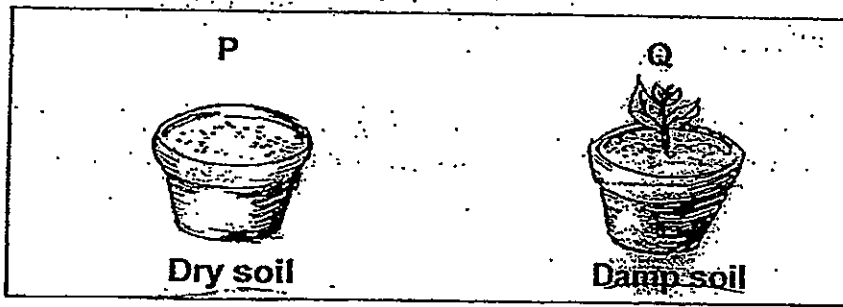
	A	B	C
(1)	60°C	60°C	30°C
(2)	60°C	30°C	70°C
(3)	30°C	60°C	30°C
(4)	30°C	30°C	70°C

Which of the following statements are correct?

- A Water vapour is a non-matter as it does not have a definite volume.
- B Shadow is a non-matter as it does not occupy space.
- C Water is a matter as it has mass and volume.

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

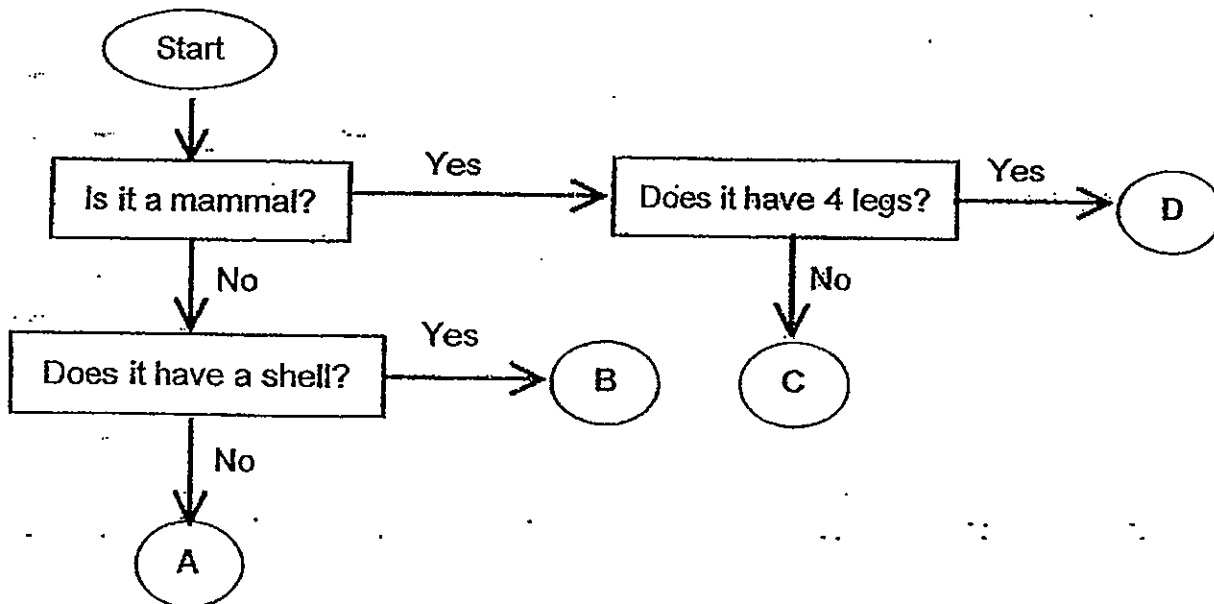
garden under the sun. Pot P contains dry soil and Pot Q contains damp soil. After two days, young plants were found growing in Pot Q but not in Pot P.



What does this experiment show?

- (1) Living things can move by themselves.
- (2) Living things need water to survive.
- (3) Living things need air to survive.
- (4) Living things can reproduce.

14. Study the flow chart below.



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

	A	B	C	D
(1)	Chicken	Turtle	Dolphin	Bear
(2)	Earthworm	Cobra	Frog	Squirrel
(3)	Pigeon	Snail	Lion	Horse
(4)	Silverfish	Tortoise	Whale	Butterfly

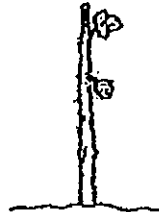
15. Meiting carried out an experiment using four similar plants, W, X, Y and Z, planted in a sunny part of the garden. She plucked off the fruit on Plant X, all the leaves on Plant Y and the flower on Plant Z. Plant W was left with all its parts intact, as shown in the four pictures below. She also watered the plants regularly during the experiment.



Plant W



Plant X

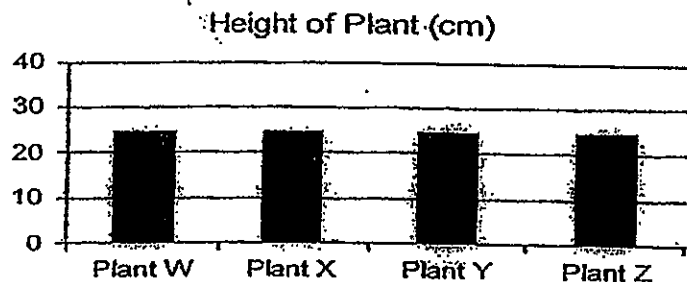


Plant Y



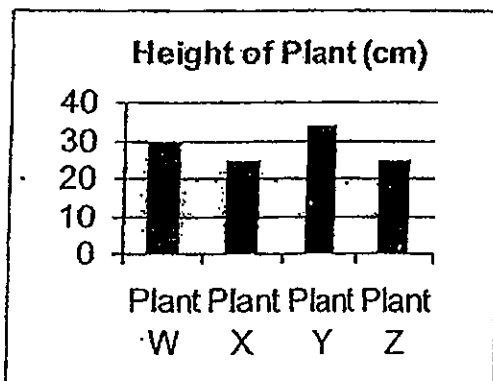
Plant Z

The graph below shows the height of the plants at the start of the experiment.

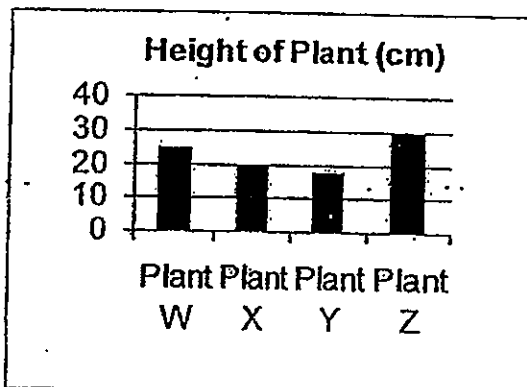


Which one of the following graphs shows the likely change in the height of the four plants after a month?

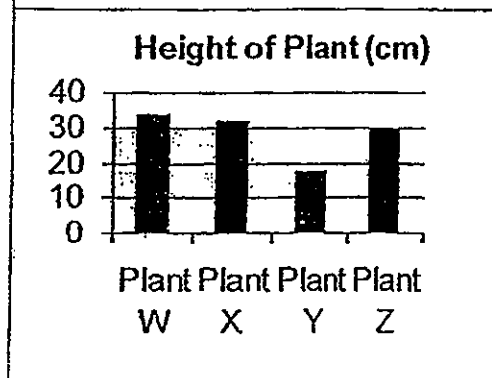
(A)



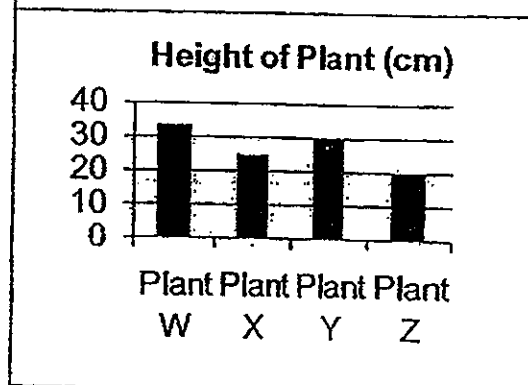
(B)



(C)



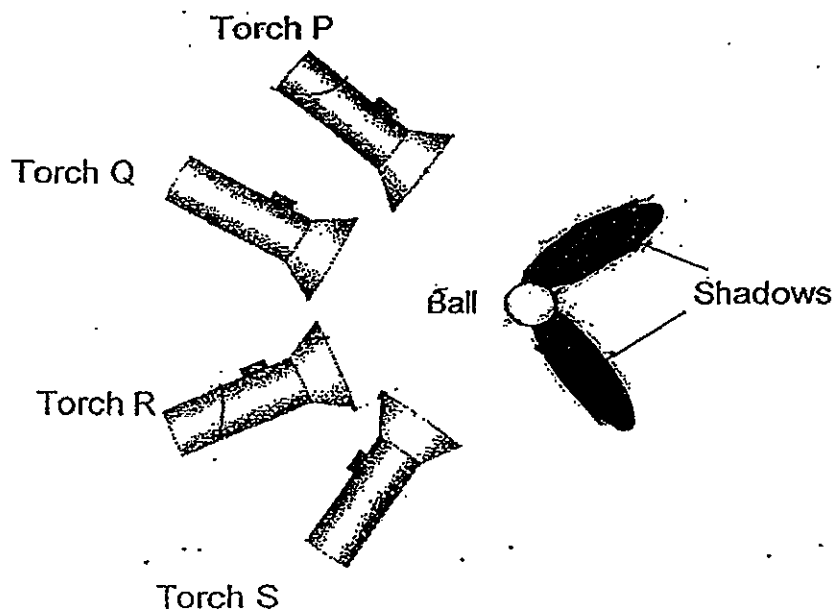
(D)



16. The table below shows the classification of different body parts according to the systems they belong. Which set has an incorrect entry?

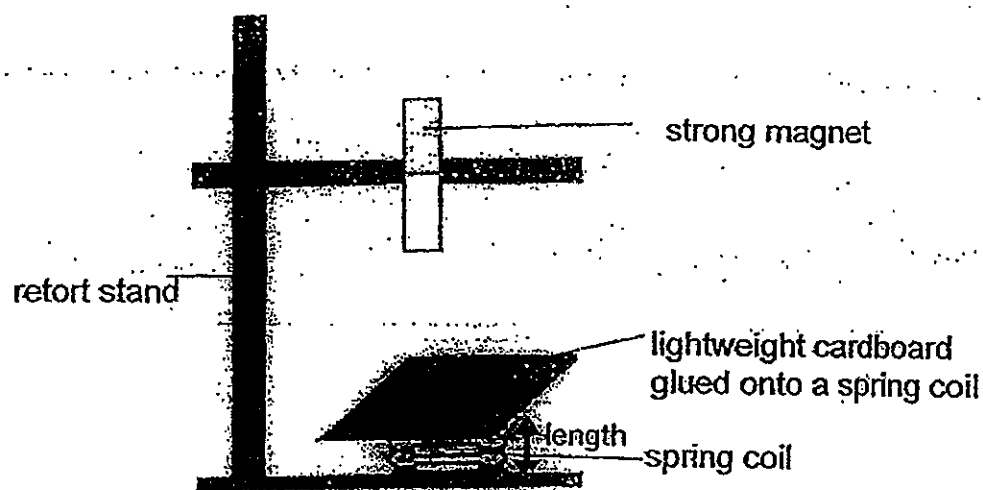
	Respiratory System	Circulatory System	Digestive System	Skeletal System
(1)	Nose	Heart	Mouth	Ribs
(2)	Windpipe	Blood vessels	Gullet	Backbone
(3)	Lungs	Heart	Stomach	Spine
(4)	Ribcage	Blood vessels	Intestines	Skull

17. Bryan placed a ball and four identical torches on a table. Out of the four torches, he only switched on two. Shadows were formed, as shown in the diagram below when he looked down at the table from above.



Which two torches did Bryan switch on?

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



Alvin set up the experiment above.

He tested four different objects, A, B, C and D by taping them on the lightweight cardboard. He observed what happened to the length of the spring coil and recorded his observations in the table below.

A	Decreases
B	Increases
C	Increases
D	Decreases

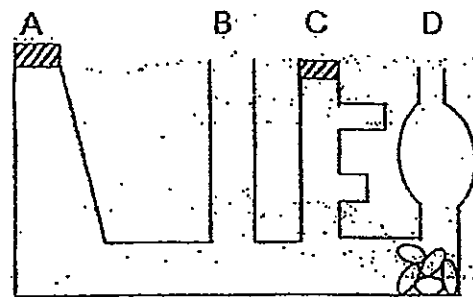
Based on the observation above, what could objects A, B, C and D be?

	A	B	C	D
(1)	Copper rod	Iron bar	Nickel coin	Gold ring
(2)	Steel pin	Iron bar	Nickel coin	Copper rod
(3)	Iron bar	Copper rod	Gold ring	Nickel coin
(4)	Nickel coin	Iron bar	Copper rod	Gold ring

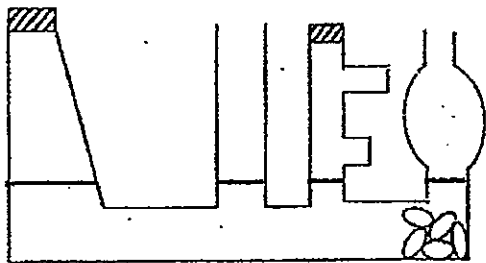
19. The diagram shows a communicating vessel.

The openings A and C are tightly covered with stoppers. There are also some pebbles at the bottom of vessel D.

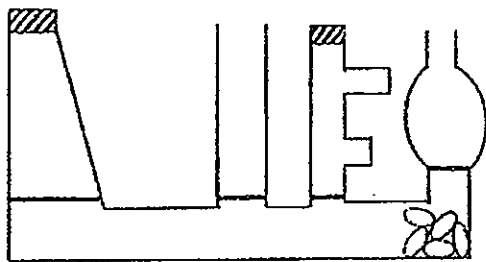
200ml of water is poured into the opening at B. Which diagram shows the correct water level?



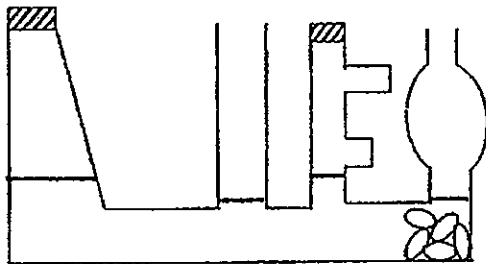
(1)



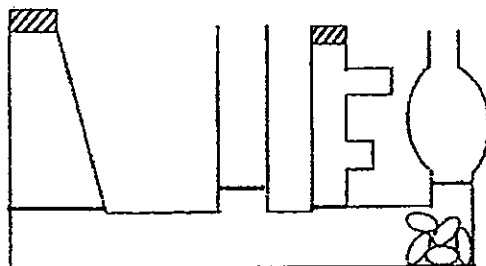
(2)



(3)



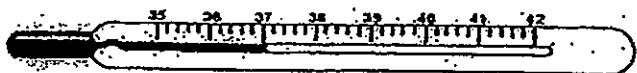
(4)



20. Look at the 3 thermometers below.



Thermometer A



Thermometer B



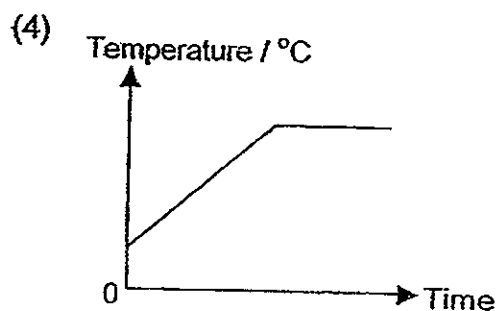
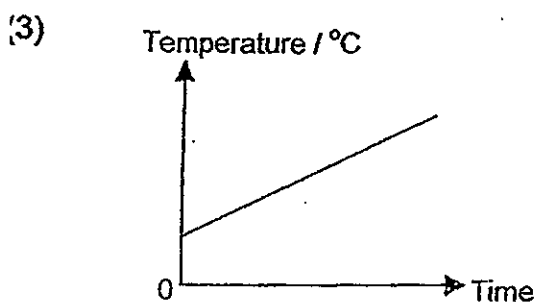
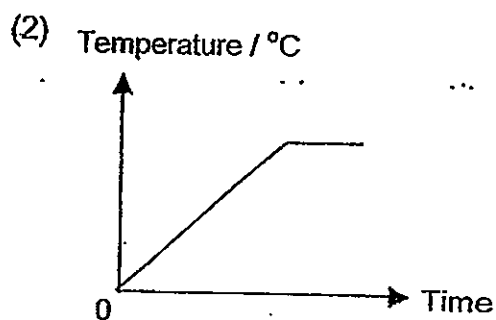
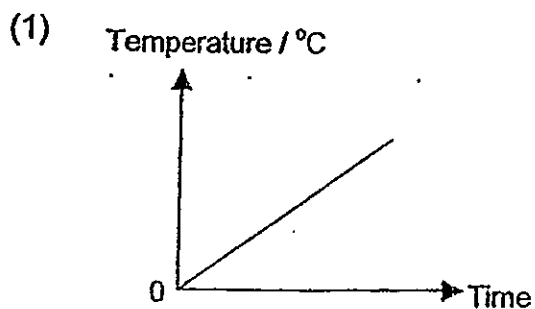
Thermometer C

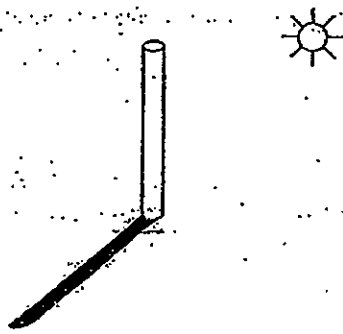
Which of the thermometers correctly show the temperature of a boy on a very cold day and the same boy when he has fever?

	Temperature of a boy on a very cold day	Temperature of a boy with fever
(*)	A	B
(2)	A	C
(3)	B	C
(4)	B	B

21. Study the graphs below.

Which one correctly shows the change in temperature when Sarah puts a pot of tap water over the fire till it boils?



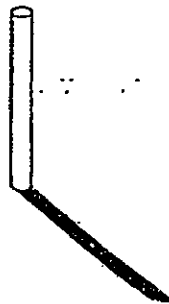


Which one of the following diagrams shows the shadow cast by the same rod at the same place in the evening?

(1)



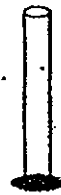
(2)



(3)



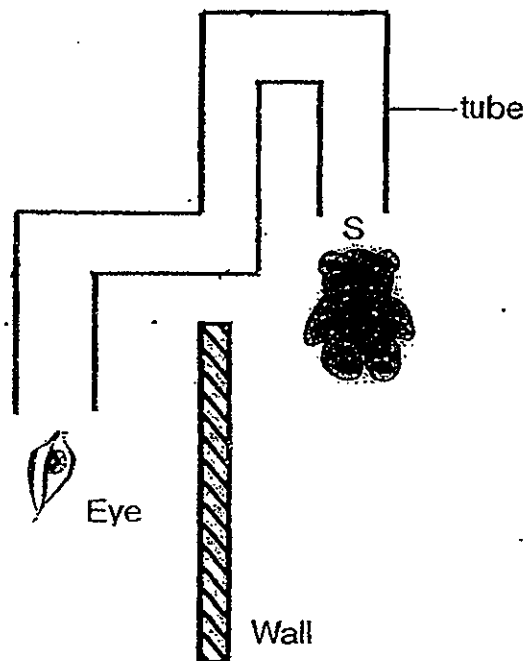
(4)



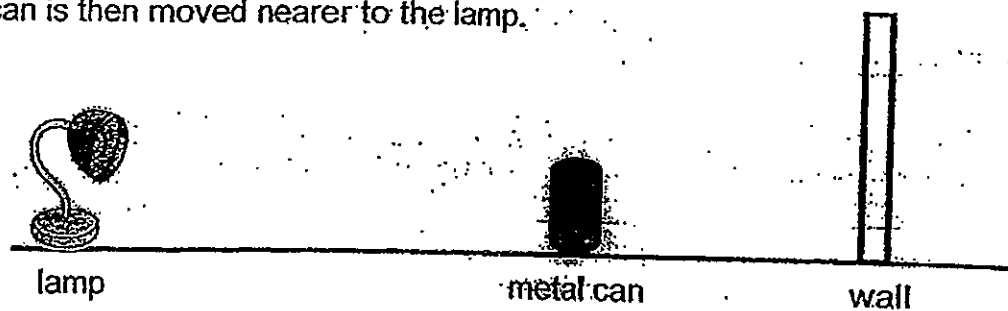
23. Study the diagram carefully.

To be able to see the teddy bear placed at S, what is the least number of mirrors required to be placed in the tube?

- (1) five
- (2) two
- (3) three
- (4) four



24. A metal can is placed between a lamp and a wall as shown in the diagram. John notices that the shadow of the can is cast on the wall. The can is then moved nearer to the lamp.

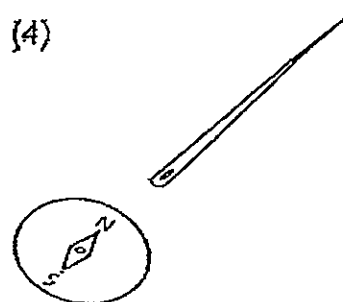
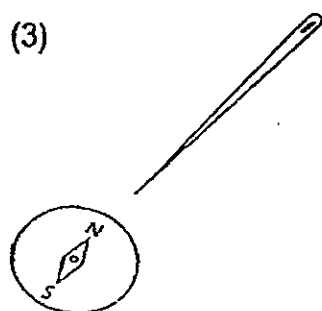
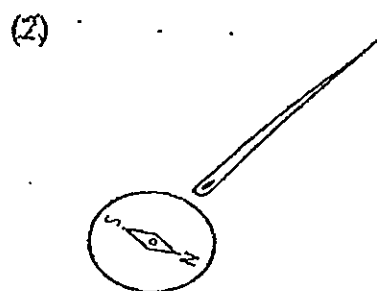
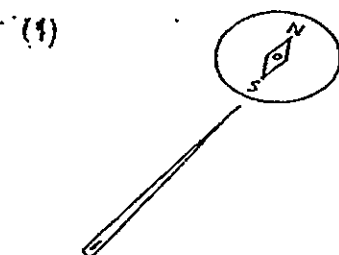
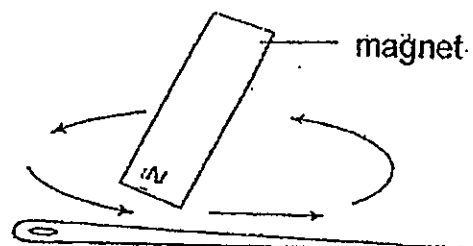


Which of the following describe the changes to the shadow?

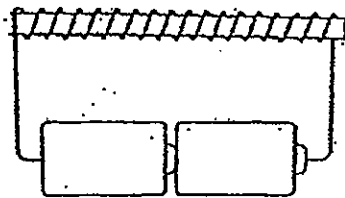
- A The shadow becomes sharper
- B The shadow becomes bigger
- C The shadow becomes smaller
- D The shadow becomes blurred

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

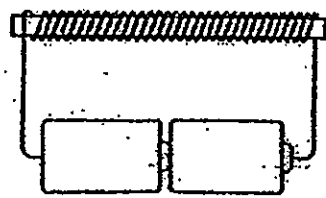
25. Samuel stroke an iron needle for 15 minutes using a bar magnet as shown. The needle is then placed near a compass. Which one of the diagrams correctly shows how the compass and needle will interact?



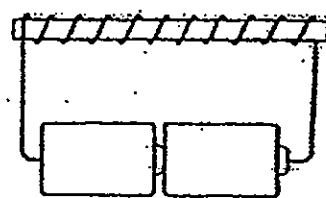
ups below. Each set-up consisted of an iron rod, two batteries and wires coiled around the iron rod.



Set-up 1

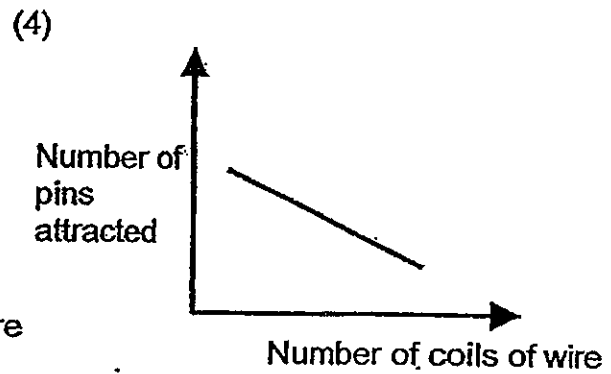
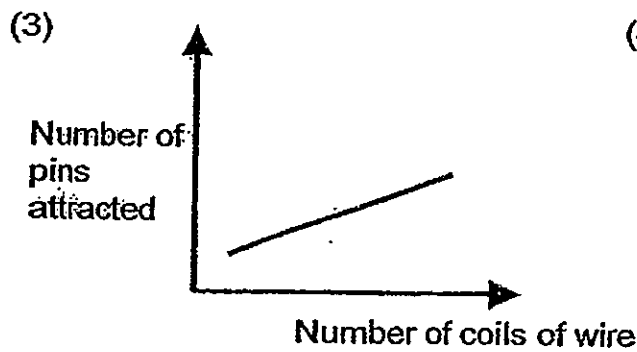
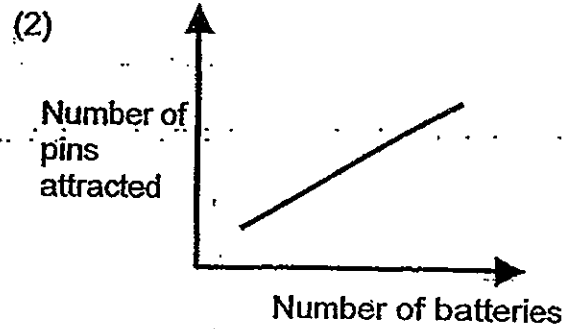
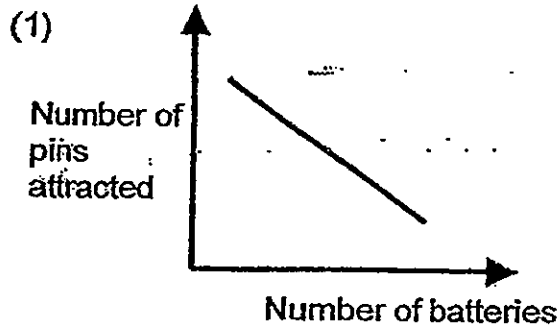


Set-up 2

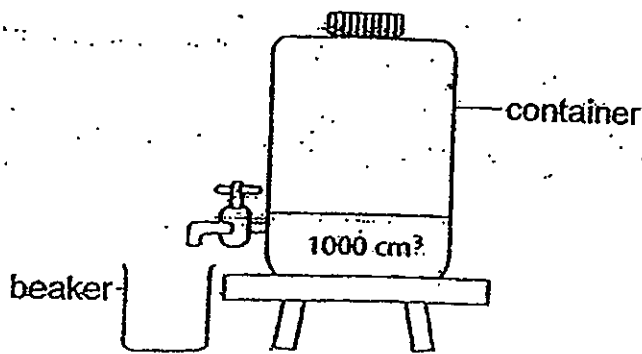


Set-up 3

Which of the graph below could be the results of their experiment?



27. The container below is filled with 1000 cm^3 of water.
The container has a capacity of 3000 cm^3 .

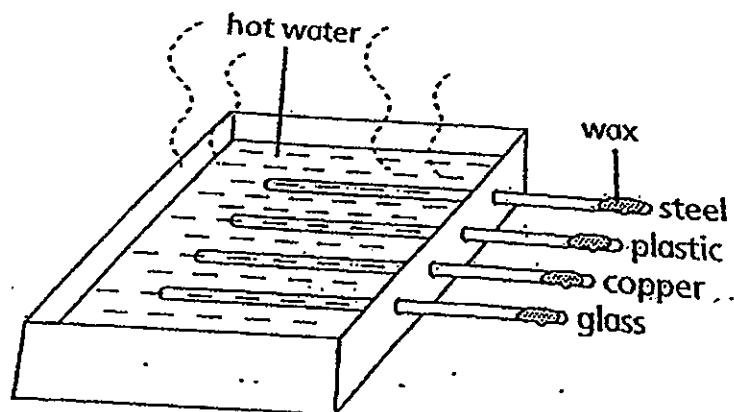


The tap is turned on and 300 cm^3 of water is collected in the beaker.
What is the volume of the air left in the container now?

- (1) 700 cm^3
- (2) 2000 cm^3
- (3) 2300 cm^3
- (4) 3000 cm^3

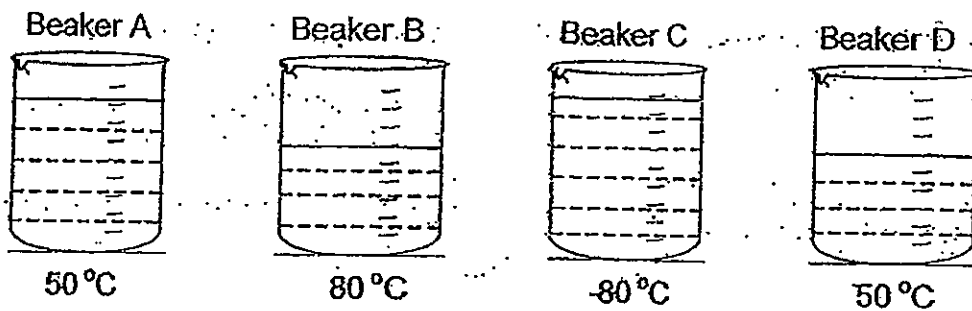
28. Four rods of the same length and thickness but made of different materials are attached to a metal container containing hot water.

One end of each rod is coated with the same amount of wax as shown.



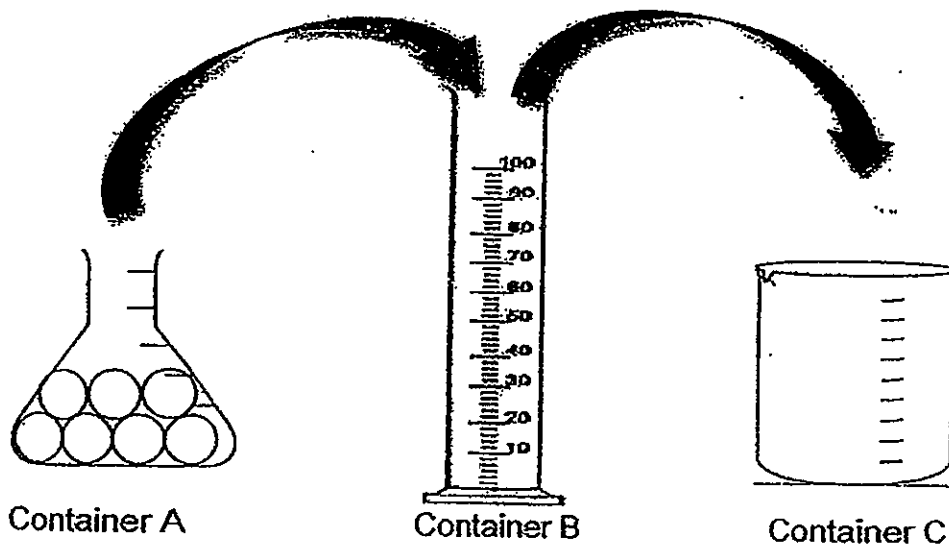
Which of the following correctly shows the order of time the wax takes to melt, starting with the one that melts first?

	Fast	Time			Last
(1)	Copper	Plastic	Glass	Steel	
(2)	Glass	Plastic	Copper	Steel	
(3)	Steel	Plastic	Copper	Glass	
(4)	Copper	Steel	Glass	Plastic	



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

30. Some marbles are transferred from container A to container B and then to container C as shown below.



Which of the following can be concluded based only on the observations from the above experiment?

- A Marbles have definite volume.
- B Marbles have definite shape.
- C Marbles have mass.

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

[illegible]

1. *Chlorophyll a* (Chl *a*) and *Chlorophyll b* (Chl *b*) were determined using the method of Arar and Collins (1997). The concentration of Chl *a* and Chl *b* was expressed as $\mu\text{g mL}^{-1}$ of the sample.



MARIS STELLA HIGH SCHOOL (PRIMARY)

SEMESTRAL ASSESSMENT 2

SCIENCE

2 NOVEMBER 2012

BOOKLET B

NAME: _____ ()

CLASS: Primary 4 ()

14 questions

40 marks

Total Time for Booklets A & B: 1 h 30 min

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

FOLLOW ALL INSTRUCTIONS CAREFULLY.

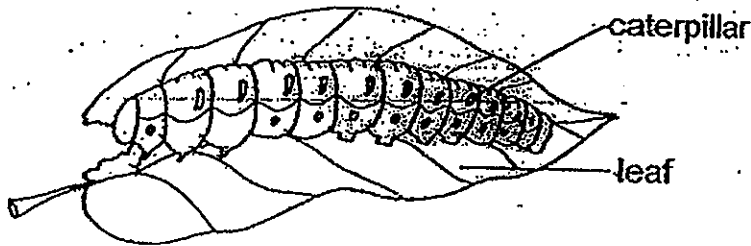
BOOKLET A: _____ / 60 BOOKLET B: _____ / 40 TOTAL: _____ / 100	80%
PRACTICAL TEST: _____ / 40	20%
GRAND TOTAL: _____ / 100	100%

PARENT'S SIGNATURE: _____

PART II

For questions 31 to 44, 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)

31.



a) The caterpillar needs food, water and _____ to stay alive. [1]

b) The caterpillar eats leaves and becomes longer after some time.
This shows that it can _____ [1]

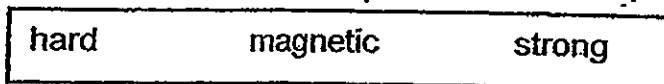
2. Susan places a magnet near an iron rod as shown below.



The iron rod moves towards the magnet.

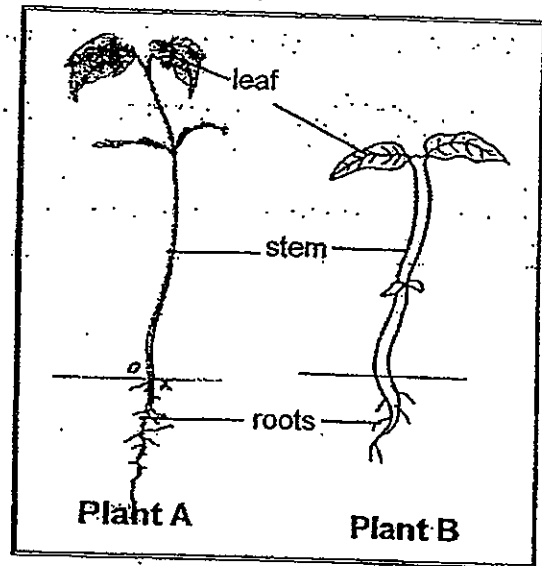
i) The magnet exerts a _____ on the iron rod. [1]

j) Choose the correct word from the box to answer the question below.



Susan's observation shows that iron is a _____ material. [1]

33(a) The diagram on the right shows two plants. [2]

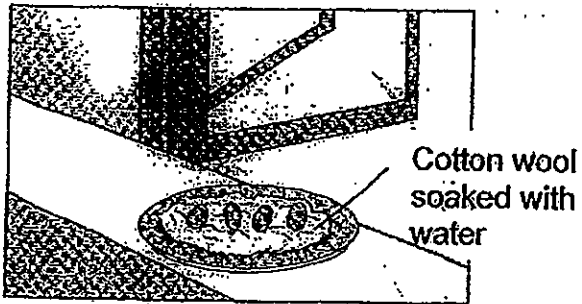


- (i) What is one difference between the stem of plant A and the stem of plant B?

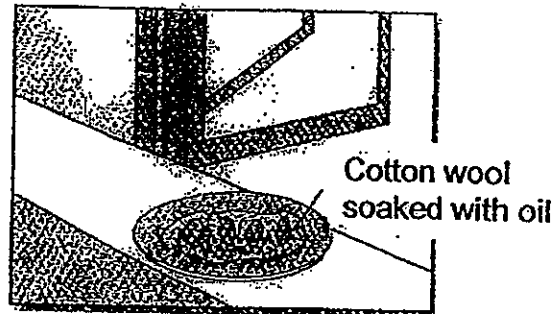
The stem of plant A is _____
the stem of plant B.

- (ii) One substance that the roots of both plants take in from the soil is _____.

- (b) Arthur placed an equal number of seeds in 2 similar containers near a window as shown.



Set-up A

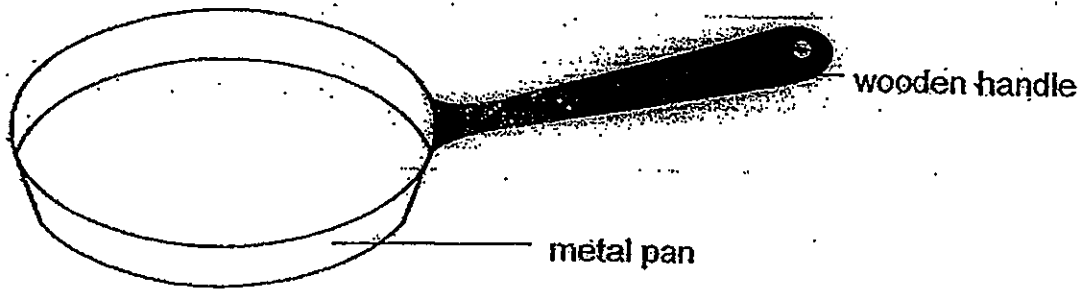


Set-up B

- (i) Predict Arthur's observations of the seeds in Set-ups A and B after 3 days. [1]

- (ii) Suggest a reason why Arthur placed both set-ups near a window. [1]

34. The diagram below shows a frying pan.



(a) The handle is made of wood because it is a _____ conductor of heat. [1]

(b) The pan is made of metal because it is a _____ conductor of heat. [1]

35. Desmond observed and grouped some living things as shown in the table.

G	H
Guppy	Tree
Mosquito	Grass

What are suitable headings for G and H?

[2]

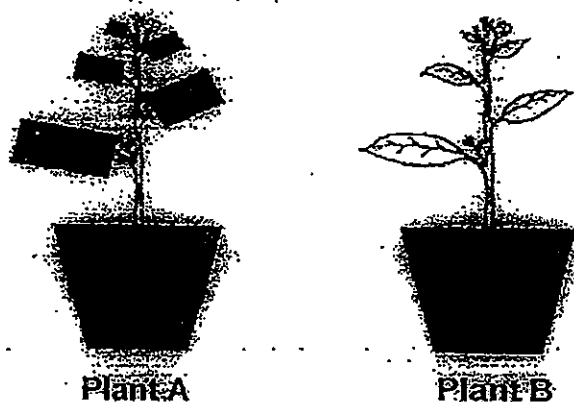
Group G: _____

Group H: _____

30. Harry conducted an experiment on plants.

He prepared two similar potted plants as shown in the diagram below. He covered all the leaves of Plant A with black paper on both surfaces. For one week, both plants, A and B, were placed under the sun and given the same amount of water each day. The growth of the plants was observed.

After one week, Plant B survived while Plant A died.



- (a) Write down the changed variable in Harry's experiment. [1]

- (b) Besides the 2 similar plants, write down another 2 important variables that Harry has kept constant to ensure that his experiment is fair. [1]

(1) _____

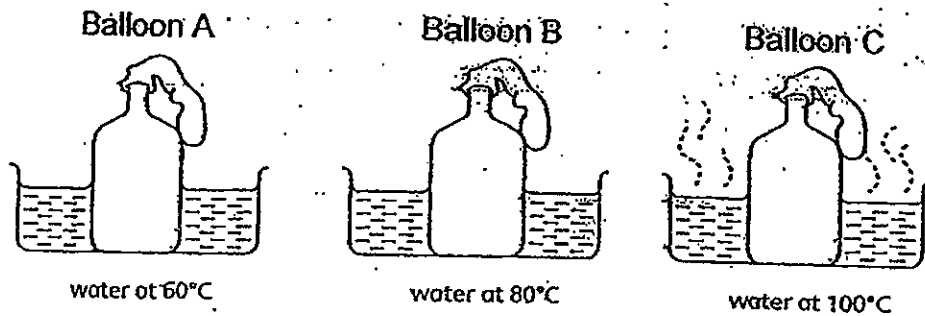
(2) _____

- (c) What was the aim of Harry's experiment? [1]



(Go on to the next page)

37. Darren covered the mouth of three identical bottles with identical balloons. He then placed the bottles into three identical containers filled with the same amount of water but at different temperatures. The diagrams below show what Darren's experiment look like at the start of the experiment.



After 2 minutes, Darren noticed that the sizes of the 3 balloons were different.

- (a) Arrange the final sizes of the balloons in descending order. [1]

- (b) Explain your choice for the biggest balloon. [1]

- (c) Will the arrangement for (a) remain the same if the amount of water in the 3 basins is not equal? Give a reason for your answer. [1]

38. The account below is an extract from Fandi's diary.

Date	Problem encountered
2 nd August	I kept sneezing repeatedly as I was clearing my dusty table.
4 th August	I had diarrhoea in the morning due to food poisoning.
11 th August	I had difficulties breathing due to the haze.
17 th August	My heart was pounding fast after the football game.
23 rd August	I had a game of badminton and my arms were aching.
31 st August	I fell down and broke my wrist while playing tennis..

Which systems in Fandi's body were affected in each of the problems mentioned above? Write the name of the respective systems in the table below. [3]

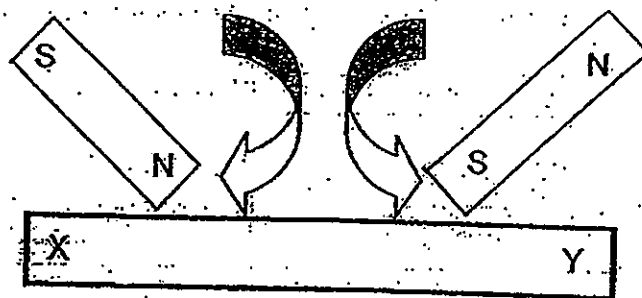
Date	Body system affected
2 nd August	
4 th August	
11 th August	
17 th August	
23 rd August	
31 st August	

	3
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(Go on to the next page)

39. Fiona made a temporary magnet by stroking across a piece of iron bar, XY, with 2 bar magnets.

She stroked the iron bar XY in the directions as shown by the arrows in the diagram.



Next, she brought the piece of iron bar XY near the following objects in the direction as shown below.

aluminium foil	X Y
steel bar	X Y
N magnet P S	X Y
S magnet Q N	X Y

- (a) Use the following terms to describe Fiona's observations of the 4 objects when iron bar XY was brought near them. [2]

Did not move

Move towards XY

Move away from XY

Objects	Observations
aluminium foil	
steel bar	
magnet P	
magnet Q	

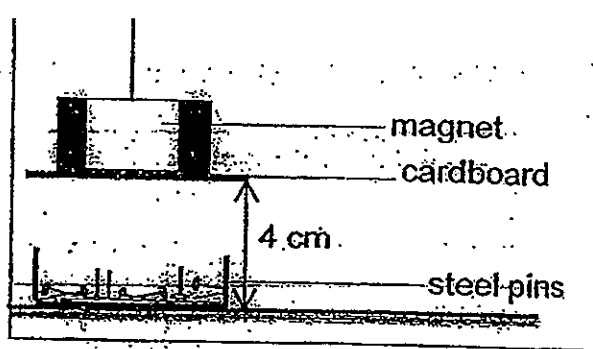
- (b) Suggest 2 methods to make iron bar XY lose its magnetism. [1]

Method 1: _____

Method 2: _____

of pieces of cardboard pasted under a magnet would affect the number of steel pins it could pick up.

He pasted a piece of cardboard under a magnet and held it at a height of 4 cm above some steel pins as shown.

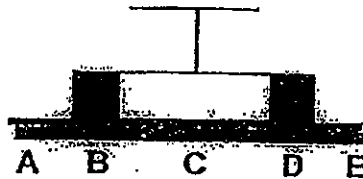


He recorded the number of pins attracted by the magnet. Peihua repeated the experiment with 2, 3 and 4 pieces of cardboard and recorded his observations.

- (a) How should Peihua control the following variables if he wanted to conduct a fair experiment? Put a tick (✓) in the boxes below to indicate your answer. [1]

Variables	Keep the Same	Change
The magnet		
The type of pins		
The number of pieces of cardboard		
The height of the magnet from the table		

- (b) When 3 pieces of cardboard were used as shown, 2 pins were attracted.



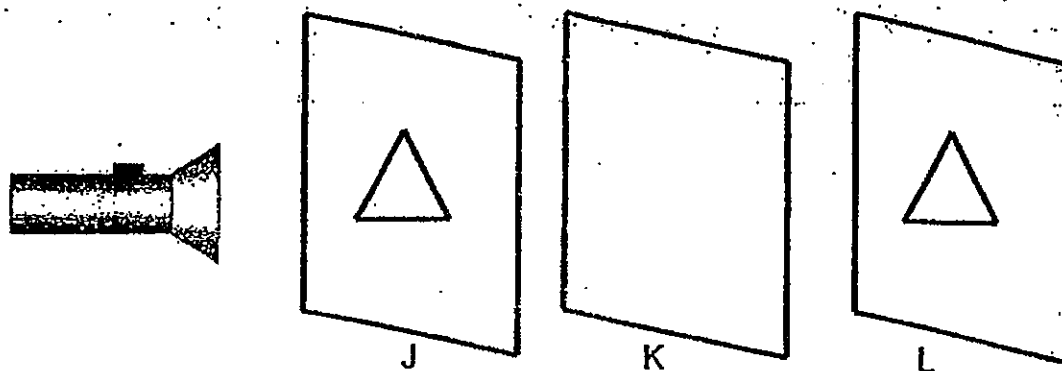
At which positions (A, B, C, D or E) would the pins most likely be found? Give a reason for your answer. [1]

- (c) Explain why the steel pins could still be attracted although there were pieces of cardboard between them and the bar magnet. [1]

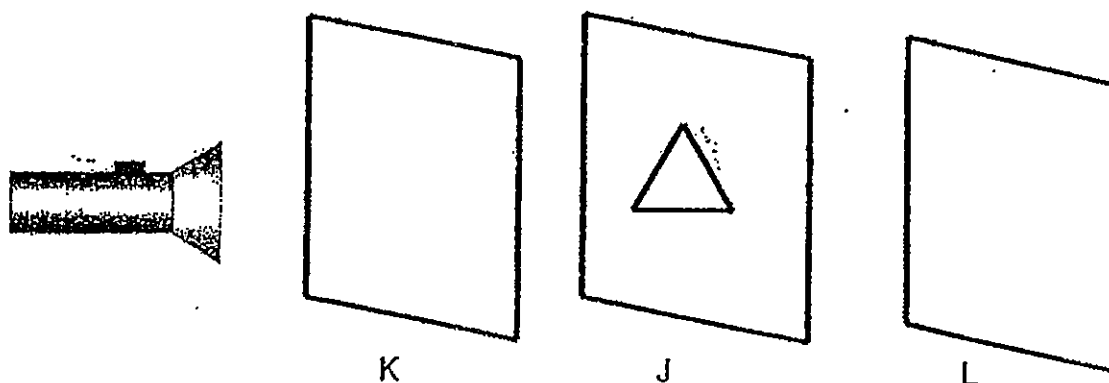
	3
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(Go on to the next page)

41. Shawn used three identical sheets of different materials, J, K and L and placed them in a straight line. There was a triangular-shaped cut in the middle of sheet J. When the torch was shone on sheet J, a bright triangular-shaped patch of light appeared on sheet L.



- (a) Describe the observation on sheet L if sheets K and J were swapped and sheet K was placed in front of sheet J instead. [1]



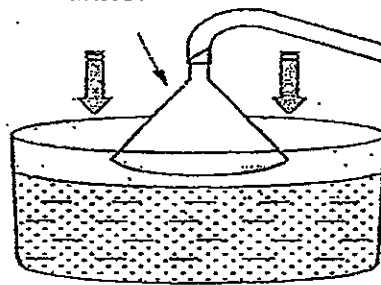
- b) In the table below, state whether the 3 sheets J, K and L are made of “transparent”, “translucent” or “opaque” materials. [1]

Sheets	Transparency Property of Materials
J	
K	
L	

42. Look at the set-up below.

large plastic funnel

plastic tube



basin of water

beaker of water

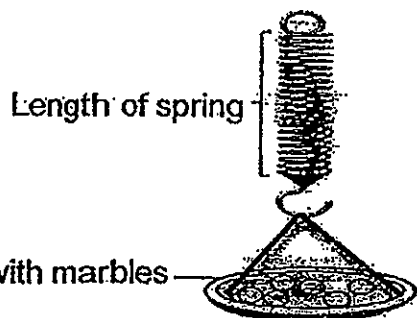
- (a) Describe what you will see in the beaker of water when the large funnel is pushed down into the basin.

[1]

- (b) What does the experiment above tell you about the property of air?

[1]

- (c) Raymond observed that there had been a change in the length of a spring when marbles were placed on the plate. He recorded the results in the table below.



Number of marbles	Length of spring (cm)
0	1
1	3
2	5
4	9
6	13
8	17
10	21

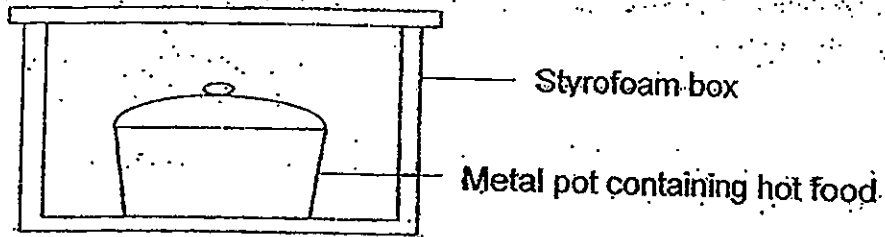
What is the relationship between the length of the spring and the number of marbles on the plate? Give a reason for the relationship described.

[2]

	4
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43. Ally put a metal pot containing some hot food in a Styrofoam box.



When Ally removed the metal pot from the box, the food was still warm.

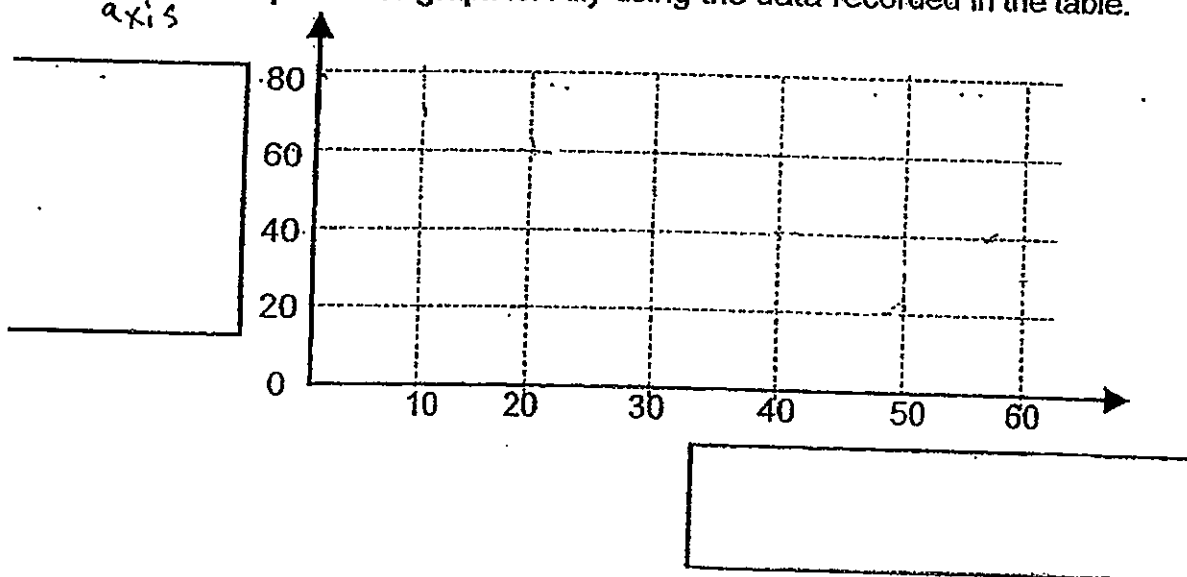
- (a) Describe the heat transfer that took place in Ally's set-up. [1]

- (b) Without removing the box, suggest another change to the set-up if Ally wants to keep the food warm for a longer period of time. [1]

- (c) The table shows the temperature of the food in the pot over a 60-minute period.

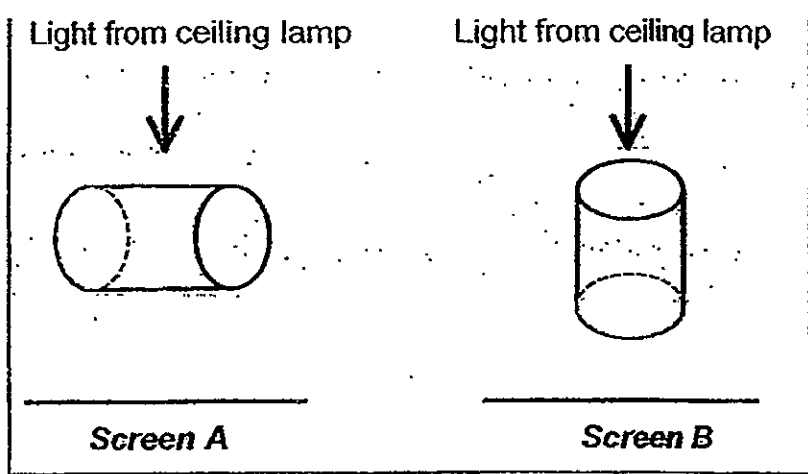
Time (min)	0	10	20	30	40	50	60
Temperature ($^{\circ}\text{C}$)	80	70	60	50	40	30	30

Based on the above, Ally drew a line graph up to the 15th minute. Label the axes. Complete the graph for Ally using the data recorded in the table. [2]

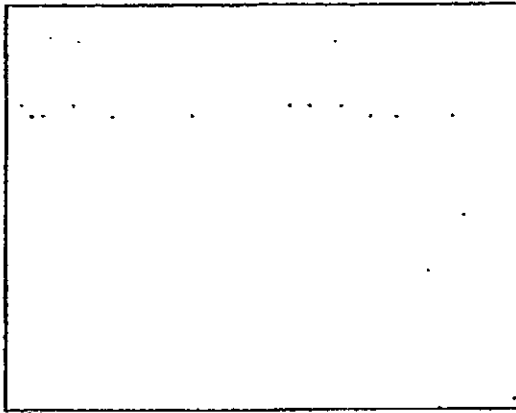


44. Dorothy placed two identical cylinders in different position directly under identical light sources in a dark room.

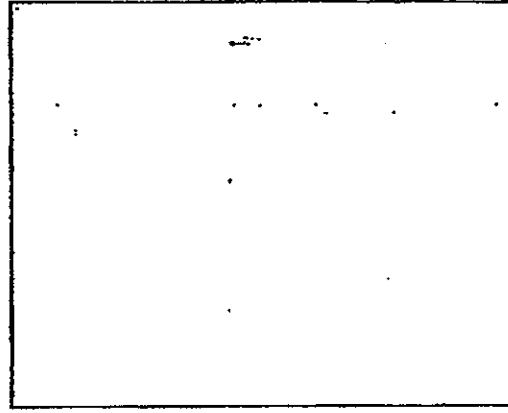
She saw the shadows formed on screens A and B which were placed below the cylinders.



- (a) In the boxes, draw the shadows that Dorothy would observe on each screen. [2]



Screen A



Screen B

- (b) Philip is walking towards his soccer ball on a dark night to retrieve it.



Philip is able to see the soccer ball in between two lamp posts 100m apart.

- (i) In the picture above, draw the light rays to show how Philip is able to see the soccer ball. [1]

	3
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Answer Ke

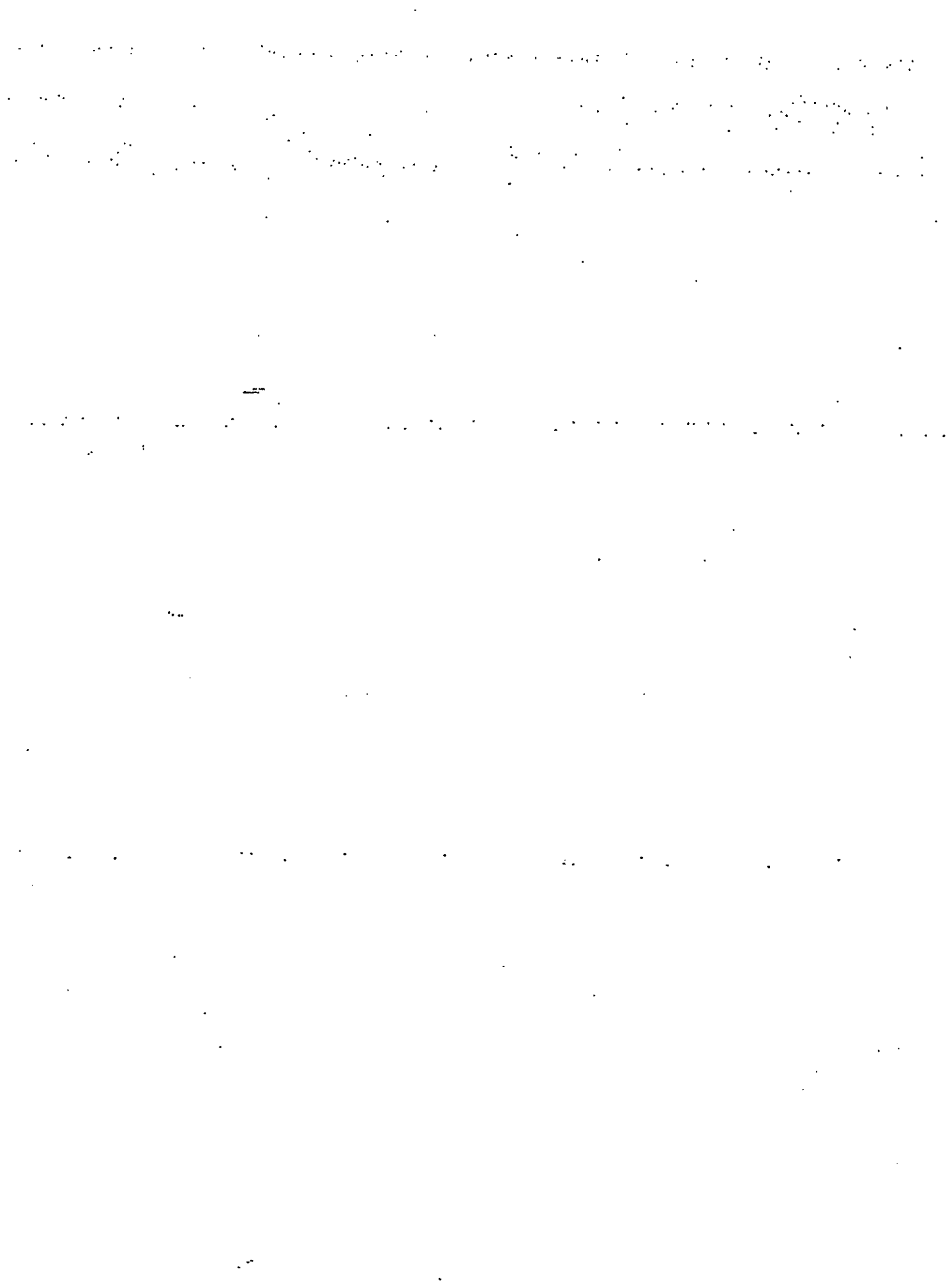
EXAM PAPER 2012

SCHOOL : MARIS STELLA
SUBJECT : PRIMARY 4 SCIENCE

TERM : SA2

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15	Q16	Q17
1	4	2	3	3	3	2	3	1	4	1	2	2	1	3	4	2

Q18	Q19	Q20	Q21	Q22	Q23	Q24	Q25	Q26	Q27	Q28	Q29	Q30
1	4	3	4	2	4	2	3	3	3	4	3	1





Booklet B

No.	Suggested Answer
31a	air / <u>oxygen</u>
31b	<u>grow</u>
32a	pull / force / <u>magnetic force</u>
32b	Magnetic
33a(i)	thinner / longer / taller
33a(ii)	<u>water</u> / dissolved mineral salts / nutrients
33b(i)	The seeds in set-up A <u>have germinated</u> but the seeds in set-up B <u>have not germinated</u>
33b(ii)	So that the seeds can receive <u>warmth</u> to <u>germinate</u>
34(a)	poor / poorer
34(b)	good / better
35	Group G: Animals / Can move freely on their own / Can move by themselves from place to place / Cannot photosynthesise / Cannot make their own food Group H: Plants / Cannot move freely on their own / Cannot move by themselves from place to place / Can photosynthesise / Can make their own food
36a	<u>The presence</u> of light
36b	Amount of water, Temperature of surrounding, Location of experiment, Type of soil, Duration of experiment
36c	To find out if the <u>presence</u> of light affects the <u>survival</u> of a plant.
37a	C, B, A
37b	The <u>balloon</u> in bottle C, <u>expanded</u> the most as it <u>gained</u> the most heat from the hot water.
37c	No. The amount of <u>water</u> will affect the amount of <u>heat</u> present in the

No	Suggested Answer															
	water:															
8	<table border="1"> <thead> <tr> <th>Date</th> <th>Body system affected</th> </tr> </thead> <tbody> <tr> <td>2nd August</td> <td>Respiratory system</td> </tr> <tr> <td>4th August</td> <td>Digestive system</td> </tr> <tr> <td>11th August</td> <td>Respiratory system</td> </tr> <tr> <td>17th August</td> <td>Circulatory system</td> </tr> <tr> <td>23rd August</td> <td>Muscular system</td> </tr> <tr> <td>31st August</td> <td>Skeletal system</td> </tr> </tbody> </table>	Date	Body system affected	2 nd August	Respiratory system	4 th August	Digestive system	11 th August	Respiratory system	17 th August	Circulatory system	23 rd August	Muscular system	31 st August	Skeletal system	
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19(a)	<table border="1"> <thead> <tr> <th>Objects :</th> <th>Observations</th> </tr> </thead> <tbody> <tr> <td>aluminium foil</td> <td>Did not move</td> </tr> <tr> <td>steel bar</td> <td>Moved towards XY</td> </tr> <tr> <td>magnet P</td> <td>Moved away from XY</td> </tr> <tr> <td>magnet Q</td> <td>Moved towards XY</td> </tr> </tbody> </table>	Objects :	Observations	aluminium foil	Did not move	steel bar	Moved towards XY	magnet P	Moved away from XY	magnet Q	Moved towards XY					
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19(b)	<p>Drop _____ the magnet many times / Hammer _____ the magnet many times</p> <p>Heat _____ the magnet (over a flame)</p>															
20(a)	<table border="1"> <thead> <tr> <th>Variables</th> <th>Same</th> <th>Change</th> </tr> </thead> <tbody> <tr> <td>The magnet</td> <td>✓</td> <td></td> </tr> <tr> <td>The type of pins</td> <td>✓</td> <td></td> </tr> <tr> <td>The number of pieces of vanguard sheet</td> <td></td> <td>✓</td> </tr> <tr> <td>The height of the magnet from the table</td> <td>✓</td> <td></td> </tr> </tbody> </table>	Variables	Same	Change	The magnet	✓		The type of pins	✓		The number of pieces of vanguard sheet		✓	The height of the magnet from the table	✓	
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The type of pins	✓															
The number of pieces of vanguard sheet		✓														
The height of the magnet from the table	✓															
20(b)	<p>B / D / B and D.</p> <p>Magnetism _____ is strongest at the _____ poles _____ of a magnet so the pins are attracted there.</p>															
20(c)	<p>The cardboard is _____ non - magnetic _____ so it allows magnetism to _____ pass through _____ to attract the steel pins.</p>															
21(a)	<p>A _____ bright _____ triangular-shaped patch of light will appear on L.</p>															

No	Suggested Answer	
41(b)	Sheet	Property
	J	opaque
	K	transparent
	L	opaque
42a	Bubbles _____ will be seen.	
42b	Air occupies _____ space / Air has _____ volume	
42c	<p>The _____ greater _____ the number of marbles placed on the plate, the longer the spring.</p> <p>The mass is _____ greater _____ when there are more marbles so the spring extends _____ more _____.</p>	
43a	The hot food _____ lost heat _____ to the surrounding _____ air _____ in the box.	
43b	Use a ceramic pot to keep the food.	
43c	<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;">Temperature ($^{\circ}\text{C}$)</div> <div style="border: 1px solid black; padding: 5px; margin-top: 10px; text-align: center;">Time (min)</div>	
14(a)	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 10px; text-align: center;"> </div> <div style="border: 1px solid black; padding: 10px; text-align: center;"> </div> </div>	

