WA2

# MARIS STELLA HIGH SCHOOL (PRIMARY)
## TERM 2 WEIGHTED ASSESSMENT
## P4 SCIENCE 2025

## BOOKLET A

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NAME: _____ (  )

CLASS: Primary 4 (  )

DATE: _____

12 questions

24 marks

Total Time for Booklets A & B: 50 min

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

FOLLOW ALL INSTRUCTIONS CAREFULLY.

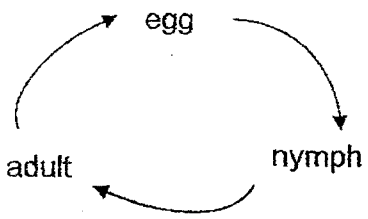
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For each question from 1 to 12, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet (OAS). **(24 marks)**

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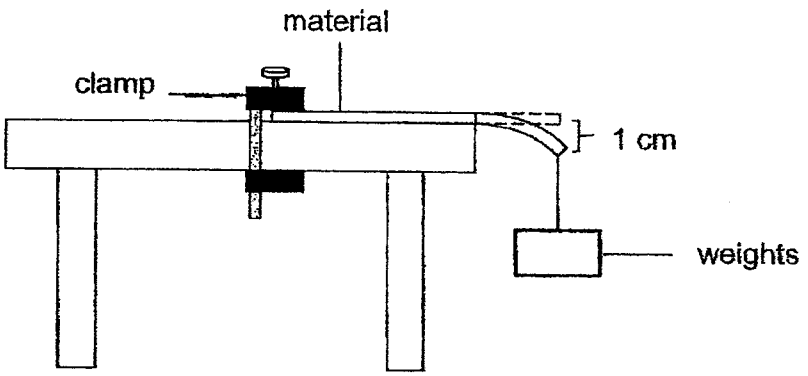
**1** The diagram below shows a life cycle of an animal.




Which animal is it likely to be?

(1) frog
(2) chicken
(3) mosquito
(4) grasshopper

**2** Mrs Ong carried out an experiment on three materials, A, B and C, with the set-up below. She recorded the number of weights it took to bend each material by 1 cm.




Which property of the materials is Mrs Ong investigating?

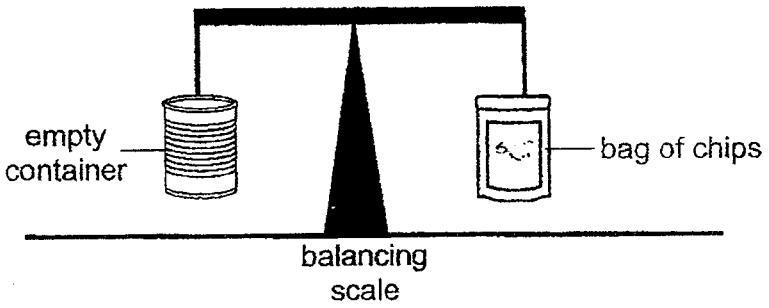
(1) strength
(2) flexibility
(3) waterproof
(4) ability to float or sink



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3 Jason placed a bag of chips and an empty container on a balancing scale.

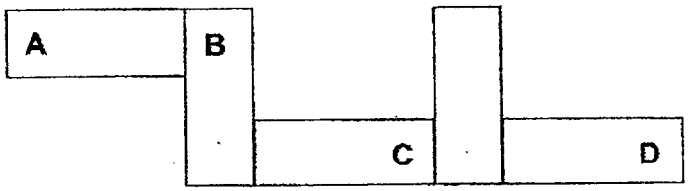



Based on the diagram, which statement is correct about the empty container and bag of chips?

Both objects have the same _____.

(1) mass
(2) shape
(3) volume
(4) state of matter

4 The diagram below shows how five bar magnets are placed together. The letters, A, B, C and D represent the poles of four of the magnets.




Which of the following combination best represents their poles?

| | A | B | C | D |
|---|---|---|---|---|
| (1) | South | South | North | South |
| (2) | North | South | South | North |
| (3) | North | South | North | North |
| (4) | South | North | South | North |



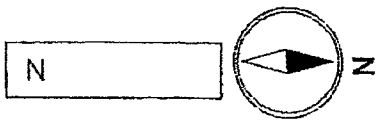
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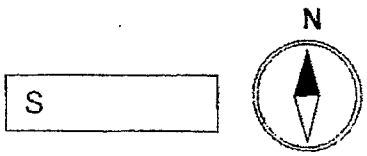
5 A compass is placed near one end of a bar magnet.

Which one of the diagrams below shows the correct position of the compass needle?

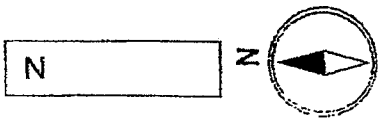
(1)



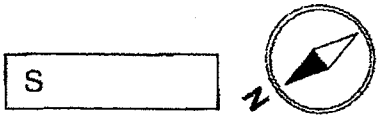

(2)



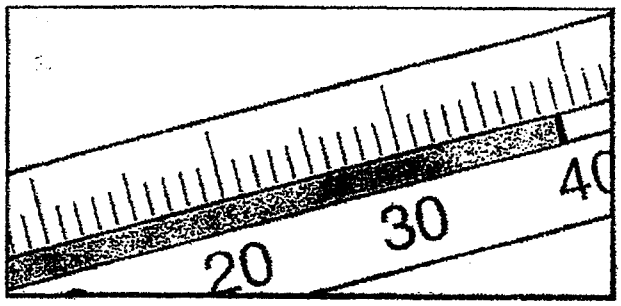

(3)




(4)




6 The diagram below shows part of a laboratory thermometer.




What is the reading on the thermometer shown above?

(1) 38 °C
(2) 39 °C
(3) 40 °C
(4) 41 °C

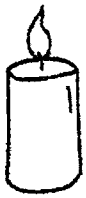


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7 Which one of the following is **not** a source of heat?

(1)



lighted candle

(2)



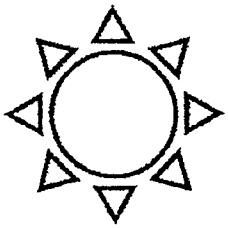
cup of hot tea

(3)



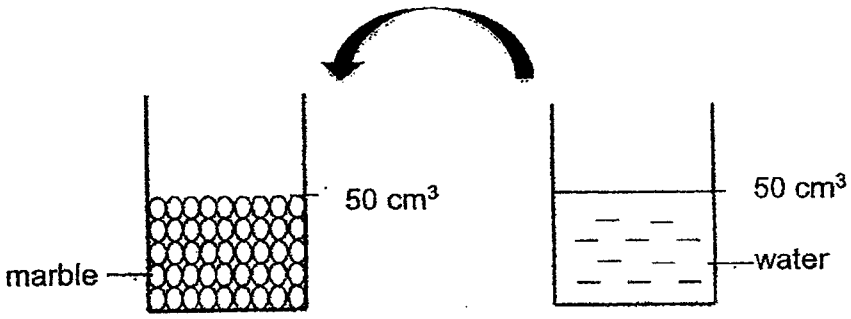
melting ice cream

(4)



Sun

8 Jie Wei placed some marbles in beaker A and filled beaker B with water till the 50 $cm^3$ mark. He then poured all the water from beaker B into beaker A.




What could the new water level in beaker A be?

(1) 100 $cm^3$

(2) less than 50 $cm^3$

(3) more than 100 $cm^3$

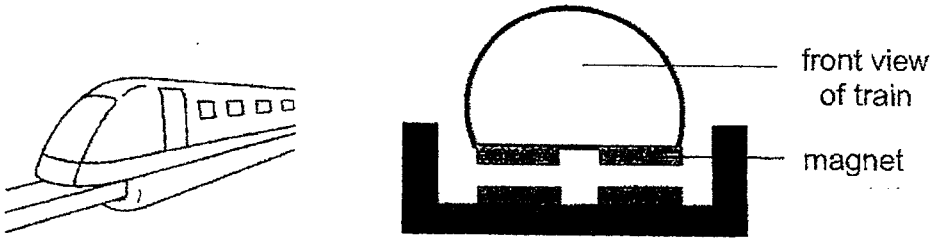
(4) between 50 $cm^3$ to 100 $cm^3$



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9 The diagram below shows the Maglev train that operates without wheels. It "floats" above the track by using very strong magnets.




Which property of magnets is applied for the Maglev train to "float"?

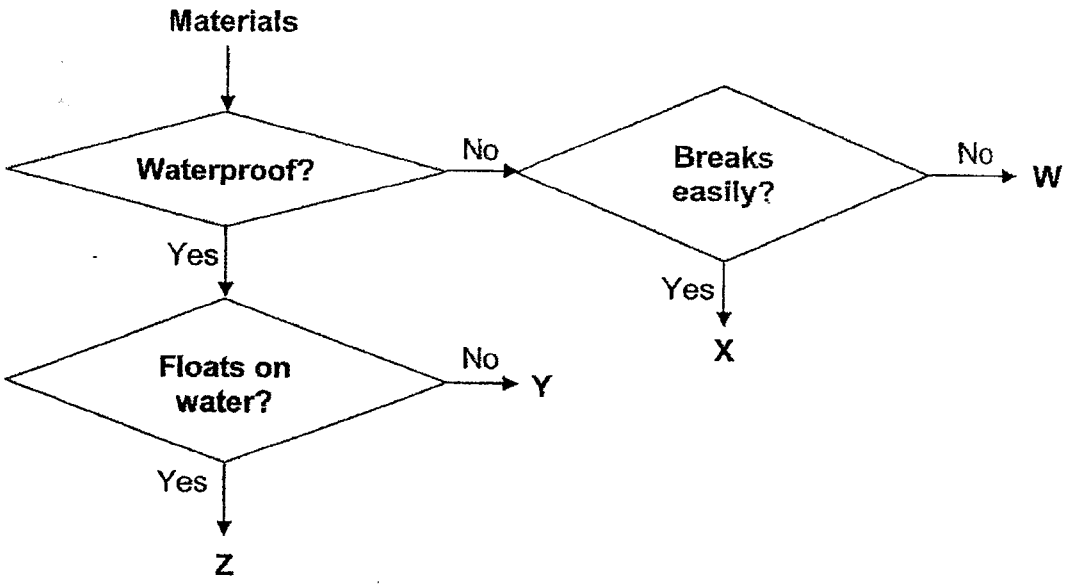
(1) Magnets attracts only magnetic objects.

(2) Like poles repel when facing each other.

(3) The strength of the magnet is strongest at its poles.

(4) A free-hanging magnet rests in a North-South direction.

10 Study the flowchart below.




Based on the flow chart above, which material is the most suitable to make a boat?

(1) W

(2) X

(3) Y

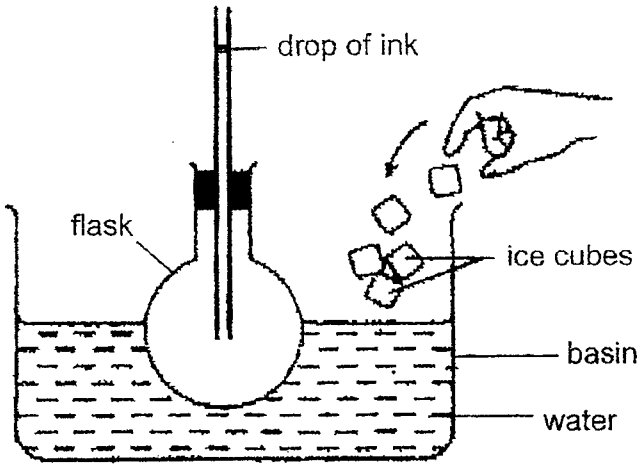
(4) Z



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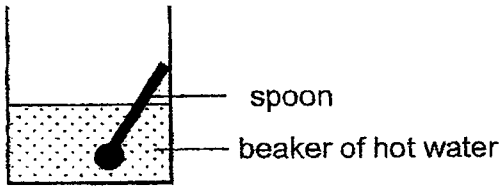
11 Aminah had the set-up as shown below. The flask and water were at room temperature. She then placed some ice cubes into the basin of water.




What change will she observe after adding the ice cubes?

(1) The drop of ink will fall.
(2) The drop of ink will rise.
(3) The water level in the basin will fall.
(4) The drop of ink will remain at the same position.

12 Raj poured some hot water into a beaker. He then placed a metal spoon in the beaker of hot water. After five minutes, he felt that the spoon was warm.




Which of the following statements correctly explains why the spoon felt warm?

(1) The spoon lost heat to the hot water.
(2) The spoon gained heat from the hot water.
(3) The hot water gained heat from the spoon.
(4) The spoon gained heat from the surrounding air.

**End of Booklet A**



(Go on to Booklet B)

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# MARIS STELLA HIGH SCHOOL (PRIMARY)
## TERM 2 WEIGHTED ASSESSMENT
## P4 SCIENCE
## 2025

## BOOKLET B

NAME: _____ (  )

CLASS: Primary 4 (  )

DATE: _____

6 questions

16 marks

Total Time for Booklets A & B: 50 min

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

FOLLOW ALL INSTRUCTIONS CAREFULLY.

| | |
|---|---|
| **Booklet A:** | **/ 24** |
| **Booklet B:** | **/ 16** |
| **Grand Total:** | **/ 40** |

Parent's Signature: _____

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For questions 13 to 18, write your answers in this booklet. The number of marks available is shown in brackets [ ] at the end of each question or part question.

**(16 marks)**

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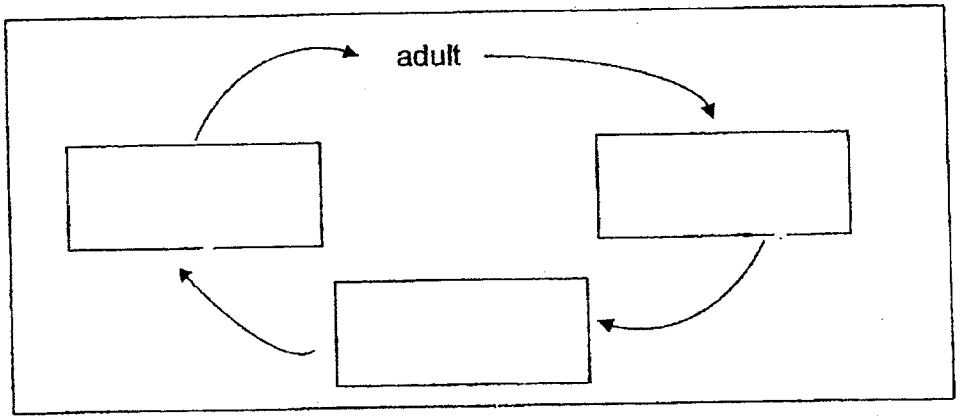
13 The number of days at the various stages of the life cycle of Insect P is shown in the table below.

| Stage | Number of days |
|---|---|
| egg | 13 |
| larva | 17 |
| pupa | 12 |
| adult | 15 |

**(a)** At which stage would insect P be 14 days after the eggs have hatched? [1]

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**(b)** Complete the life cycle of insect P below. [1]




| | 2 |
|---|---|

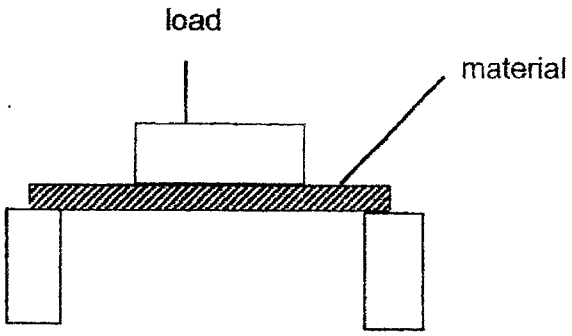
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14 Mr Ng carried out an experiment as shown below to find out the most suitable material to make a stool.

He placed similar loads of 10kg on it and counted the number of loads that the material could support before it tore or broke. He repeated the experiment using three different materials.



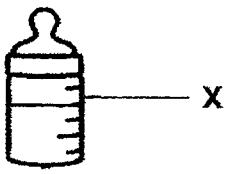

(a) State the variable that was changed in this experiment. [1]

_____

(b) State one variable to be kept constant to ensure a fair experiment. [1]

_____

15 The diagram below shows a milk bottle used by young children and filled with warm milk.




Which material, metal or plastic, is more suitable to make part X of the bottle? Explain why. [2]

_____

_____

_____

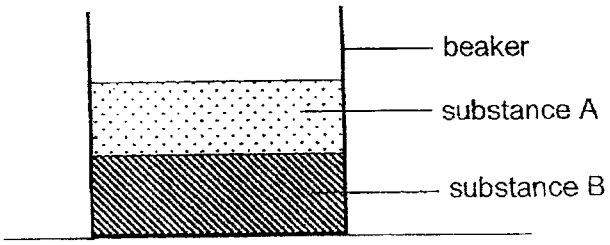
| | 4 |
|---|---|

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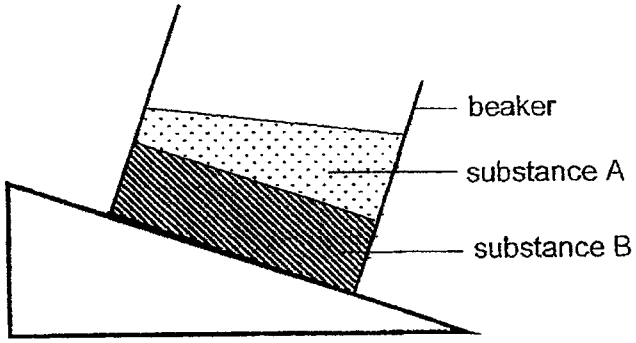


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16 David filled a beaker with two substances, A and B, as shown below.




He then placed the beaker on a wooden wedge.




**(a)** Based on the diagrams above, what are the states of matter of substances A and B? [2]

A: _____ B: _____

**(b)** Based only on the diagrams above, tick the property that best describes substance A in this experiment [1]

☐ Substance A has no definite shape.

☐ Substance A has no definite volume.

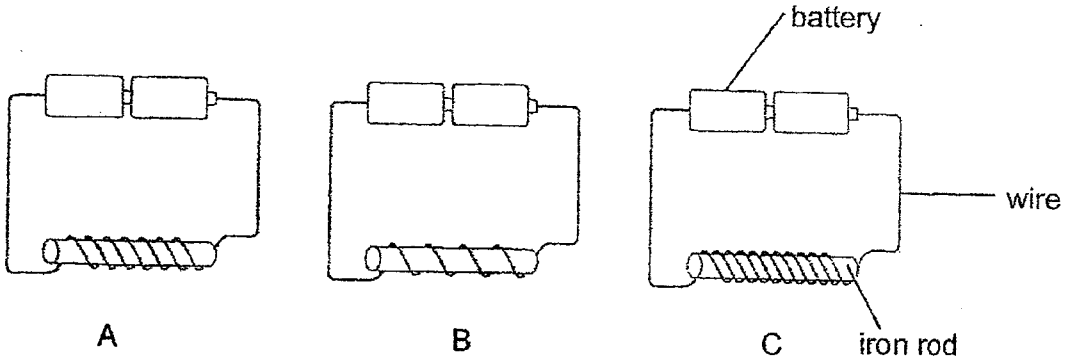
| | 3 |
|---|---|

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17 John has three electromagnets, A, B and C, which are made using identical iron rods.




**(a)** Arrange the three electromagnets according to their magnetic strength from the strongest to the weakest. [1]

_____ , _____ , _____

strongest weakest

**(b)** Other than iron, state another suitable material to make the electromagnet. [1]

_____

**(c)** Other than changing the number of coils of wire around the rod, what can John do to increase the strength of the electromagnet? [1]

_____

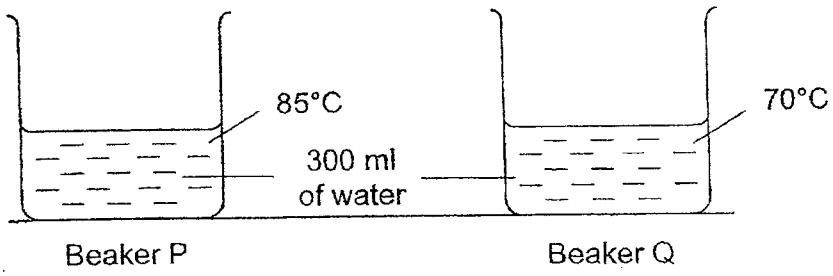
| | 3 |
|---|---|

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18 The diagram below shows two beakers. Beaker P contains 300 ml of water at 85°C while Beaker Q contains 300 ml of water at 70°C.




Cheryl had a dented ping pong ball. She wanted to inflate it by putting it into water.

(a) In which beaker of water would the ping pong ball take a shorter time to inflate? Explain your answer. [2]

_____

_____

(b) Cheryl poured all the water from beaker Q to beaker P.

(i) State a possible final temperature of the water after Cheryl poured all the water from beaker Q to beaker P? [1]

_____

(ii) What would happen to the temperature of the water after a day? [1]

_____

**End of Booklet B**

| | |
|---|---|
| | 4 |



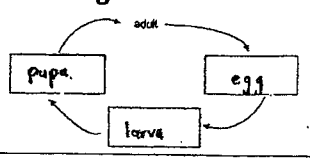
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YEAR : 2025
LEVEL : PRIMARY 4
SCHOOL : MARIS STELLA SCHOOL
SUBJECT : SCIENCE
TERM : TERM 2 WEIGHTED ASSESSMENT

## BOOKLET A

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

## BOOKLET B

| | |
|---|---|
| Q13 | a) larva stage<br>b)  |
| Q14 | a) type of materials<br>b) ~~state one variable to be kept constant to ensure a fair experiment.~~ |
| Q15 | plastic is a poor conductor of heat, so it will not get too hot and it safer for children to hold. It is also light and not easily broken. |
| Q16 | a) A : liquid B: Solid<br>b) substance A has no definite shape. |
| Q17 | a) C , A , B<br>b) Steel<br>c) John can put more batteries used. |
| Q18 | a) Beaker P. The water in beaker P is hotter , so it provides more heat to the air inside the ping-pong ball, causing it to inflate faster.<br>b) i. 78°c<br>ii. It will cool down to room temperature. |

Q.14 b)
↳ Position of load on the material.

1

END

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