WA1

MARIS STELLA HIGH SCHOOL (PRIMARY)
TERM 1 NON-WEIGHTED ASSESSMENT
P4 SCIENCE
2025

NAME: _____ (   )

CLASS: Primary 4 (   )

13 questions

30 marks

Total Time: 30 min

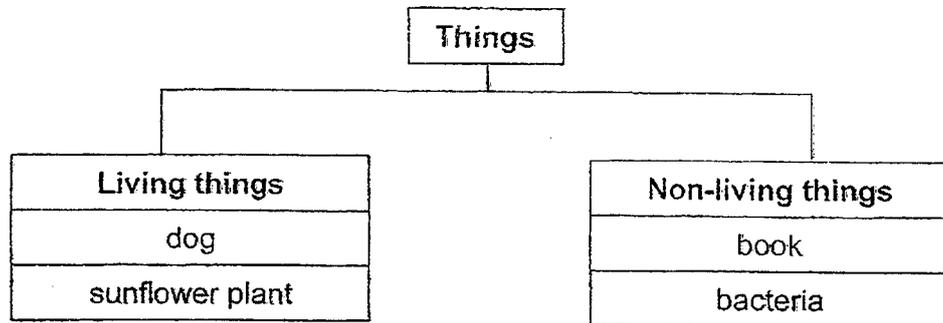DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

FOLLOW ALL INSTRUCTIONS CAREFULLY.

Total: _____ / 30

Parent's Signature: _____

For each question from 1 to 10, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Write the number in the brackets provided.   (20 marks)

1   Study the classification chart below.

```
                        ┌─────────┐
                        │  Things │
                        └─────────┘
                             │
           ┌─────────────────┴─────────────────┐
   ┌───────────────────┐             ┌───────────────────────┐
   │   Living things    │             │   Non-living things    │
   ├───────────────────┤             ├───────────────────────┤
   │        dog         │             │         book           │
   ├───────────────────┤             ├───────────────────────┤
   │  sunflower plant   │             │       bacteria         │
   └───────────────────┘             └───────────────────────┘
```

Which thing is **not** classified correctly?

(1)   dog

(2)   book

(3)   bacteria

(4)   sunflower plant   (   )
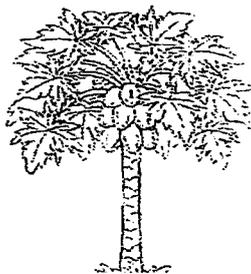
2   Which of the following is **not** a characteristic of an insect?

(1)   It has six legs.

(2)   It has a pair of wings.

(3)   It has a pair of feelers.
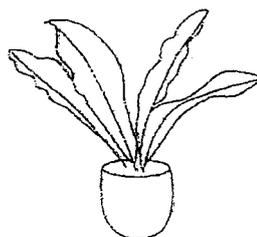
(4)   It has a three body parts.   (   )

	4

3   Study the two diagrams below.

papaya plant   bird's nest fern
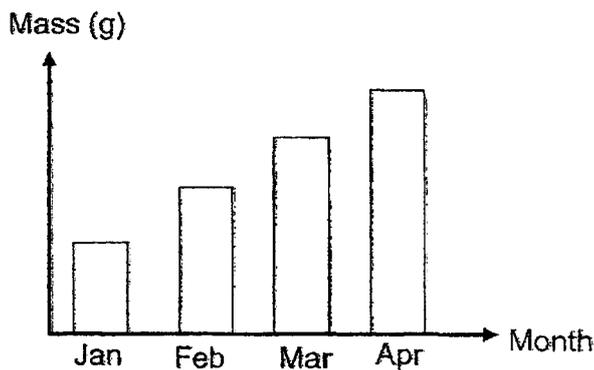
The papaya plant and the bird's nest fern are similar because they _____.

    A   reproduce by seeds
    B   are non-flowering plants
    C   can make their own food

(1)   A only

(2)   C only

(3)   B and C only

(4)   A, B and C   (   )

4   Hafiz measured the mass of P over a period of four months. He drew a graph based on his results as shown below.

What could P likely be?

(1)   cat

(2)   robot

(3)   pencil

(4)   computer   (   )

	4

2   (Go on to the next page)

5   Mrs Ong carried out an experiment to find out if the amount of water on bread affects the growth of mould on it. She placed two pieces of bread in two identical bags, A and B, and sealed the bags.
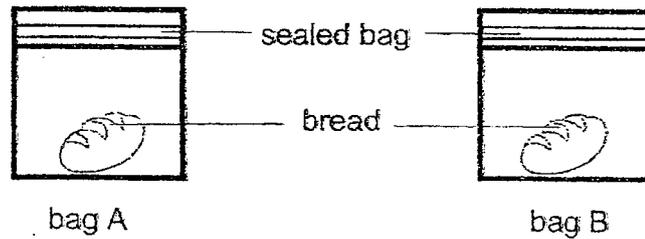
bag A   bag B

The variables for his experiment are shown in the table below.

	Bag A	Bag B
Amount of water on bread (ml)	50	Q
Duration of experiment (days)	2	R

Which of the following should Q and R be to ensure a fair experiment?

	Q	R
(1)	0	3
(2)	20	2
(3)	20	3
(4)	50	2

(   )

6   Which one of the following is not matter?

(1)   air
(2)   rice
(3)   water
(4)   shadow

(   )

	4

(Go on to the next page)

7   Samuel moulded a piece of plasticine into the shape of a star. Then, he used the
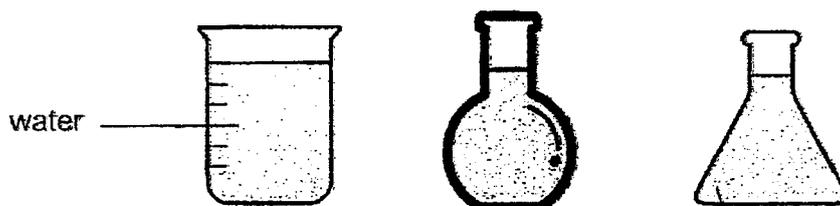   same piece of plasticine to mould it into the shape of a ball.
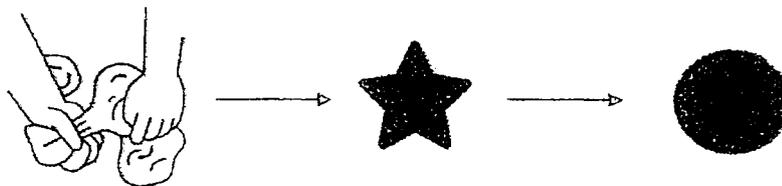
Both the star and the ball have the same _____.

    A   mass
    B   shape
    C   volume

(1)   A only

(2)   C only

(3)   A and C only

(4)   A, B and C   (   )

8   Weiming filled 200 ml of water into each of the three containers as shown below.

water ⟶

What can he conclude from the experiment?

(1)   Water has mass.

(2)   Water has no definite shape.

(3)   Water cannot be compressed.

(4)   Water has no definite volume.   (   )

	4

4   (Go on to the next page)

9   Which apparatus can be used to measure the mass of a pebble accurately?

(1)

ruler

(2)

measuring cylinder

(3)
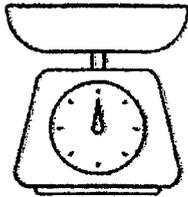
weighing balance

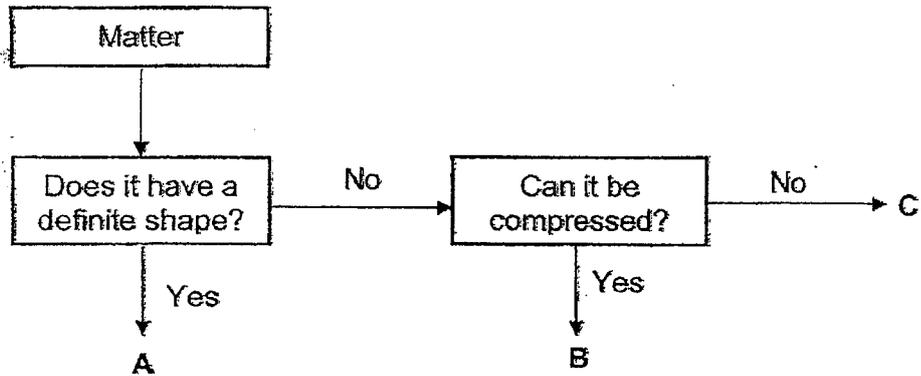(4)

beaker with water

(   )

10   Study the flowchart below.

Matter
↓
Does it have a definite shape? --No--> Can it be compressed? --No--> C
│Yes   │Yes
↓   ↓
A   B

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

	A	B	C
(1)	pencil	air	water
(2)	pencil	water	air
(3)	water	pencil	air
(4)	water	air	pencil

(   )

	4

For questions 11 to 13, write your answers in this booklet. The number of marks available is shown in brackets [ ] at the end of each question or part question.   (10 marks)

11   Study the flowchart below to answer the following questions.

```
                    ┌─────────────────┐
                    │     Animal      │
                    └─────────────────┘
                             │
                             ▼
     ┌──────────────────┐   No    ┌──────────────────┐  No
     │ Does it give birth├───────►│   Can it swim?   ├────► P
     │  to young alive? │         └──────────────────┘
     └──────────────────┘                  │
              │ Yes                         │ Yes
              ▼                             ▼
     ┌──────────────────┐  No     ┌──────────────────┐  No
     │   Can it swim?   ├───► R   │ Does it use gills ├────► Q
     └──────────────────┘         │  for breathing?  │
              │ Yes               └──────────────────┘
              ▼                             │ Yes
     ┌──────────────────┐  No               ▼
     │ Does it use gills ├───► T             S
     │  for breathing?  │
     └──────────────────┘
```
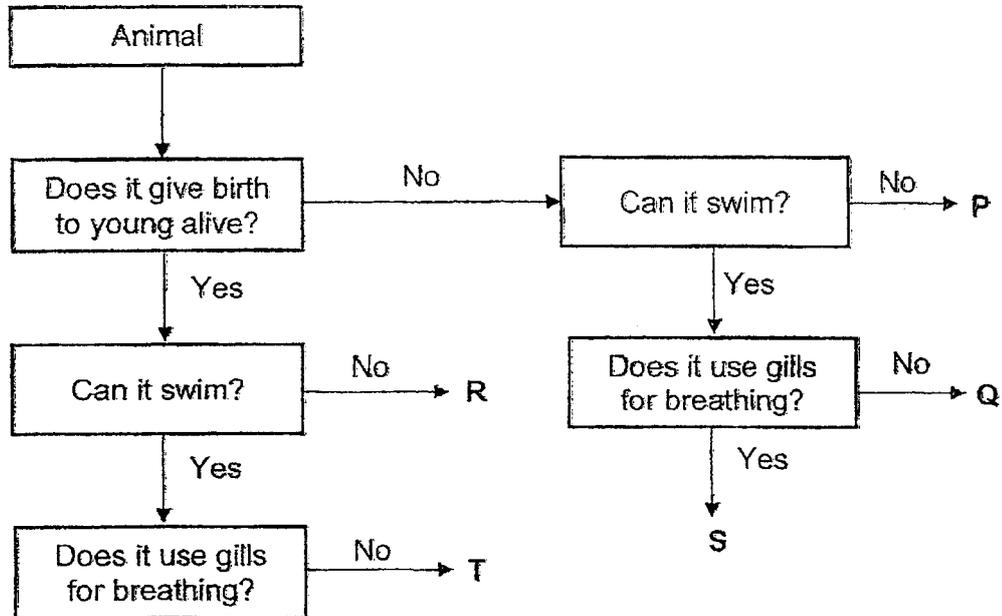
(a)   Give a reason why animal Q cannot be a mammal.   [1]

_____

_____

(b)   State one difference between animal S and animal T.   [1]

_____

_____

(c)   State one similarity between animal P and animal R.   [1]

_____

_____

┌──────┬─────┐
│   │ 3 │
└──────┴─────┘

6

12   Jerome poured some water into the measuring cylinder as shown below.
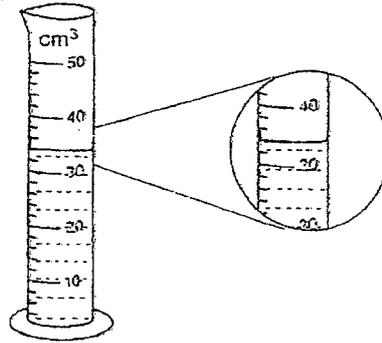
(a)   State the amount of water in the measuring cylinder. Include the correct units in your answer.   [1]

_____

(b)   Jerome wanted to find out the volume of his marble. He observed that the water level increased when he placed it in the measuring cylinder. What property of matter did he observe?   [1]

_____

_____

(c)   Jerome wanted to place 100 glass marbles in a container that has a capacity of 100 cm³. Each glass marble has a volume of 1 cm³.
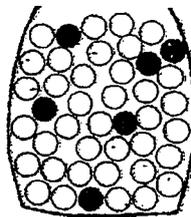
Jerome was unable to fit all the glass marbles in the container.
Explain why.   [2]

_____

_____

_____

7

| | 4 |

13 Kumar pumped air into beach ball A that has a volume of 250 cm³ as shown below until it is fully inflated.
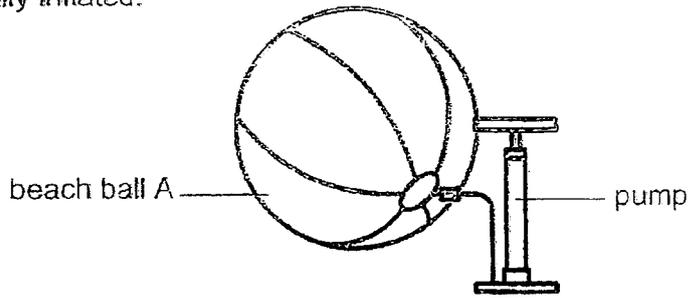
beach ball A _____ pump

(a) Kumar continued to pump 20 cm³ more of air so that the ball felt firmer. What is the final volume of air in the inflatable beach ball? [1]

cm³

(b) State the property of gas used to conclude the volume of air in (a). [1]

(c) He was given another identical beach ball B that had no air in it. Fill in the boxes with **A** and **B** to indicate where beach balls A and B were placed for the beam balance to tilt in the way shown. [1]
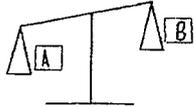
End of Section B

8
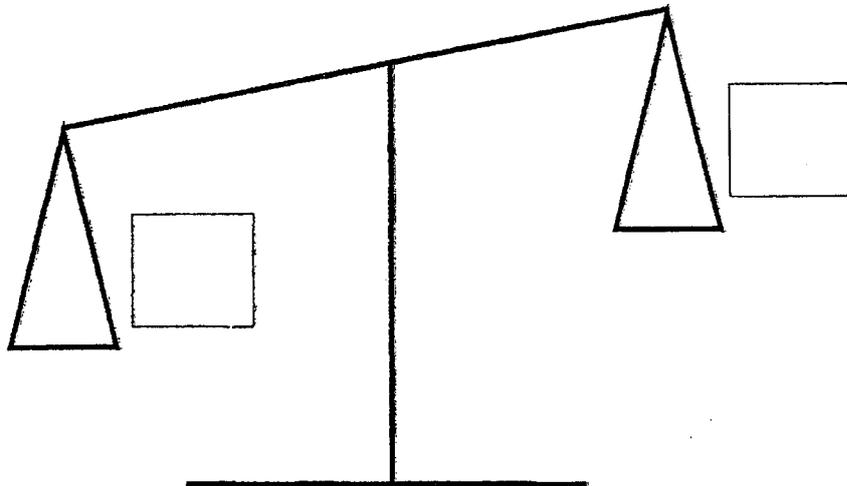
3

YEAR   :   2025
LEVEL   :   PRIMARY 4
SCHOOL: MARIS STELLA SCHOOL
SUBJECT: SCIENCE
TERM   :   TERM 1 NON-WEIGHTED ASSESSMENT

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

Q11	a) Animal Q cannot be a mammal because it does not give birth to young alive. b) Animal S gives birth to young alive but animal T does not. c) Both animal P and R cannot swim.
Q12	a) $34cm^3$ b) occupies space c) there are air spaces between the marbles, marbles have definite shape.
Q13	a) $270cm^3$ b) Air can be compressed c)

END