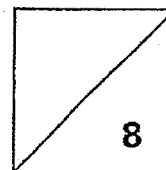




Henry Park Primary School
Primary 4 Science
2024 Weighted Assessment 1
Paper 1



Name: _____ ()

Duration: 25 minutes

Class: Primary 4 _____

Parent's Signature: _____

Paper 1 [8 marks]

You are required to answer 3 questions which include 2 performance tasks.
 Read and follow the instructions carefully to complete the tasks.
 Write the answers to the questions in the spaces provided.

Question 1

Performance Task 1 (5 minutes)

You are given the following items.

- a cup of coloured water
- a measuring cylinder

- 1a) Pour 30 ml of coloured water into the measuring cylinder. [1]
- 1b) Your teacher will check if the amount you have poured is 30 ml.
- 1c) After your teacher has checked, pour the coloured water back into the cup and attempt questions 2 and 3.

Question 2

Performance Task 2 (10 minutes)

You are given the following items:

- object X
- measuring cylinder
- a cup of coloured water

- 2a) (i) Fill the measuring cylinder with 20 ml of coloured water.
- (ii) Put object X into the measuring cylinder. Record the volume of the **water** and **object X**.
- (iii) Volume of the **water** and **object X** = _____ ml [1]
- (iv) Find the volume of **object X**. Volume of **object X** = _____ cm³ [1]
- 2b) Based on your observation, explain why object X can be classified as matter. [1]

Question 2 continued

2c) Observe the coloured water and object X inside the measuring cylinder.

[1]

The _____ takes the shape of the measuring cylinder
but _____ does not.

Question 3

3a) State what matter is.

[2]

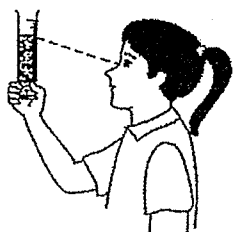
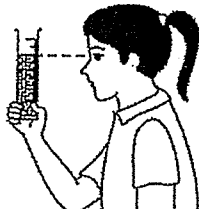
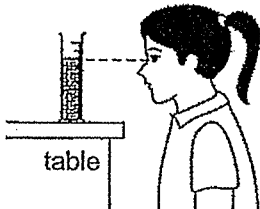
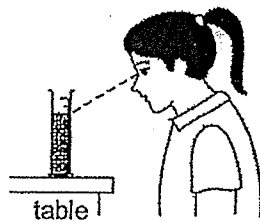
Matter is anything that has _____ and occupies _____

3b) Study the diagrams shown below.

Which one of the following shows the correct method of reading the volume of water in a measuring cylinder?

[1]

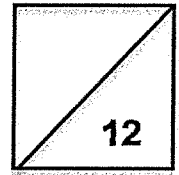
Tick (✓) the correct answer.

			
()	()	()	()

End of Science WA1 Paper 1



Henry Park Primary School
Primary 4 Science
2024 Weighted Assessment 1
Paper 2



Name: _____ ()

Duration: 25 minutes

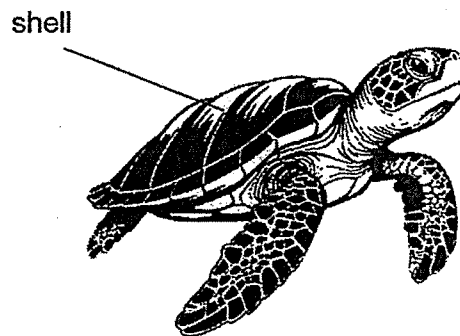
Class: Primary 4 _____

Parent's Signature: _____

For questions 1 to 3, four options are given.

Choose the correct answer and write your answer (1, 2, 3, or 4) in the brackets () provided.

1. Animal L has a shell that supports its body and protects its organs as shown in the diagram below.



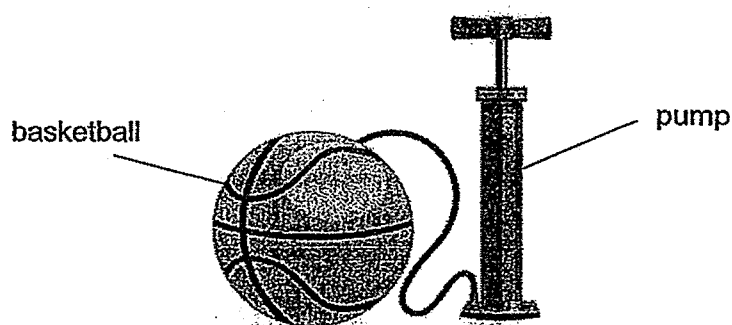
This shell is made of material H.

Which property of material H allows the shell to perform the functions described?

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

()

2. A pump is used to pump air into a basketball as shown below.



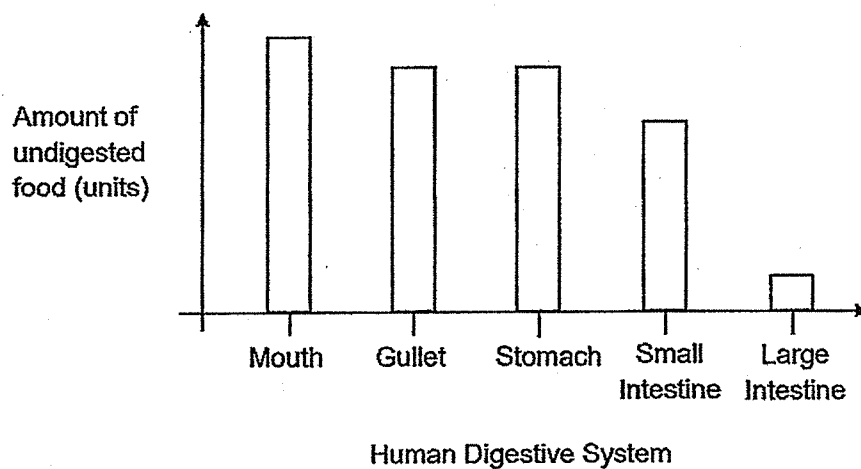
The size of the basketball remains the same after pumping air into it a few times.

Which of the following statements is correct as more air is pumped into the basketball?

- (1) The air in the ball is compressed.
- (2) The volume of air in the ball decreases.
- (3) The mass of the air in the ball decreases.
- (4) The mass of the air in the ball remains the same.

()

3. The bar graph shows the amount of undigested food as it enters different organs in the digestive system after a meal.



Based on the information above, which of the following statement(s) is / are correct?

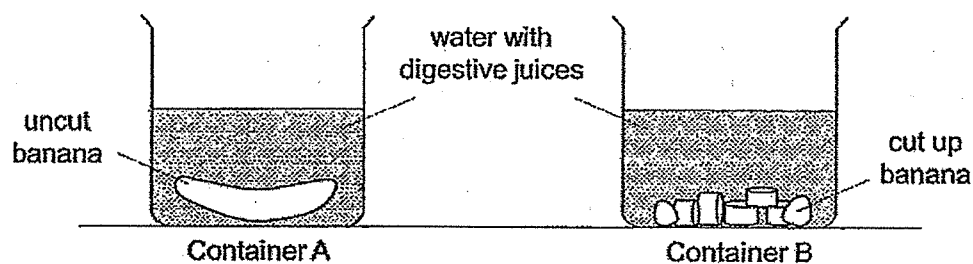
- A Digestion starts in the stomach.
- B Digestion does not take place in the gullet.
- C Most of the food is digested in the small intestine.

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

()

For questions 4 and 5, write your answers in the spaces given.

4. Nathan conducted an experiment as shown below. He placed 45 g of uncut banana into container A and 45 g of cut banana into container B.



He then recorded the time taken for the banana in each container to be completely digested, as shown in the table below.

Container	Time taken to completely digest the banana (min)
A	35
B	25

- a) State the variable that was changed in this experiment.

[1]

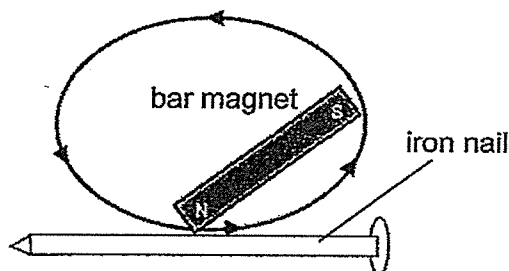
- b) State how the digestive juices digest the banana.

[1]

- c) Why did the banana in container B take a shorter time to be digested?

[1]

5. Kelvin used a bar magnet and the stroking method to magnetise an iron nail as shown below. The iron nail becomes a temporary magnet after stroking it with the bar magnet.



Then he used the temporary magnet to attract some paper clips. He repeated the experiment, changing the number of strokes applied to the iron nail each time.

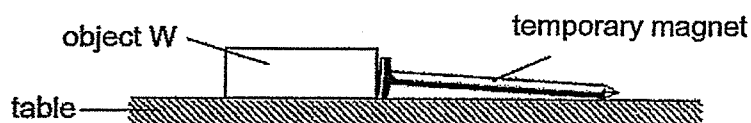
He recorded the results in the table below.

Number of strokes applied to the iron nail	Number of paper clips attracted
20	2
40	4
60	8

- a) What is the relationship between the number of strokes applied and the number of paper clips attracted by the temporary magnet? [1]

- b) If Kelvin had used a copper nail rather than an iron nail, would the copper nail be able to attract any paper clips? Explain your answer. [1]

After Kelvin had stroked his iron nail 50 times, he placed object W near the temporary magnet. He observed that object W was attracted to the temporary magnet as shown in the diagram below.



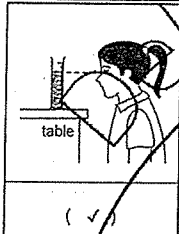
- c) Kelvin concluded that object W was a magnet. Do you agree with him? Explain your answer. [1]

End of Science WA1 Paper 2

P4 SC WA1 Paper 1

Name _____

Suggested Answers

Q2a (iii)	22 ml or 23 ml
Q2a (iv)	2 ml or 3 ml
Q2b	Object X occupies space in the measuring cylinder.
Q2c	The (coloured) water takes the shape of the measuring cylinder but object X does not.
Q3a	Matter is anything that has mass and occupies space .
Q3b	

P4 SC WA1 Paper 2 - Suggested Answers

Q1	(1)	Q2	(1)	Q3	(4)
Q4a	The surface area of the banana exposed to the digestive juices.				
Q4b	The digestive juices break down the banana / food into simpler substances.				
Q4c	The banana in container B has a larger surface area exposed to the digestive juices.				
Q5a	As the number of strokes (applied) increases the number of paper clips attracted (by the temporary magnet) increases				
Q5b	No, as copper is a non-magnetic material.				
Q5c	No. Object W could be a magnetic material which can also be attracted to a magnet. OR No. Kelvin can only conclude that object W is a magnet if he observes that it repels the magnet.				

END