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

12

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.

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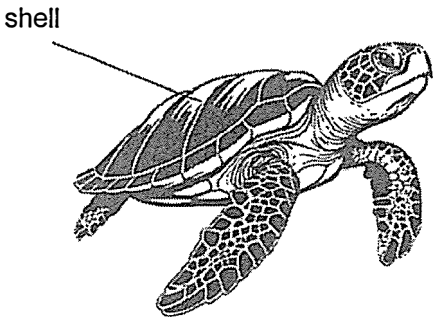
1. Animal L has a shell that supports its body and protects its organs as shown in the diagram below.



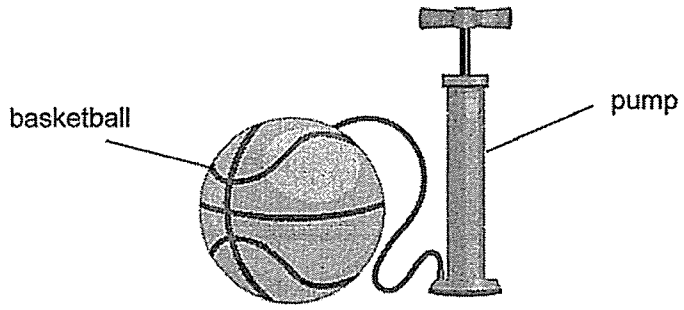
This shell is made of material H.

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.

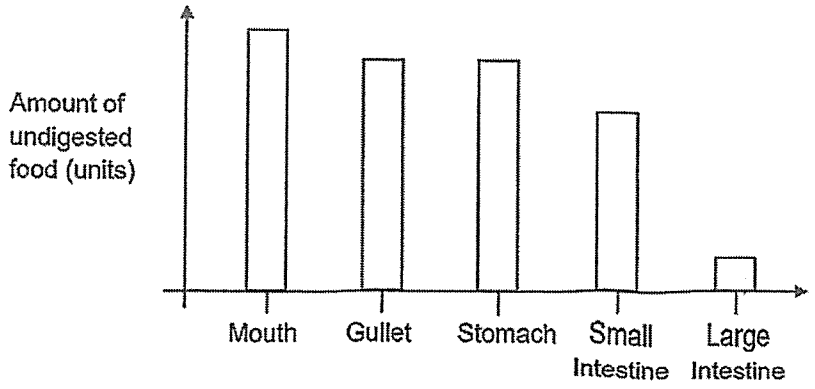
(2) The volume of air in the ball decreases.

(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.



Human Digestive System

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

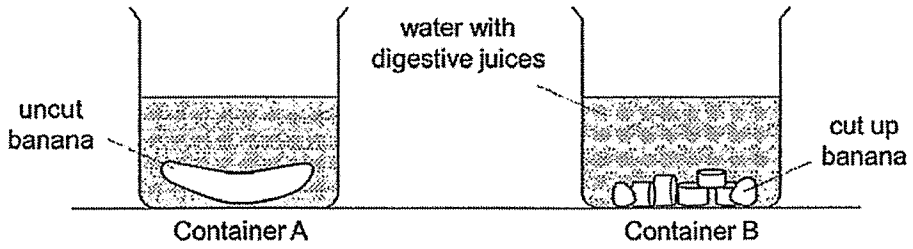
(3) A and B only

(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.

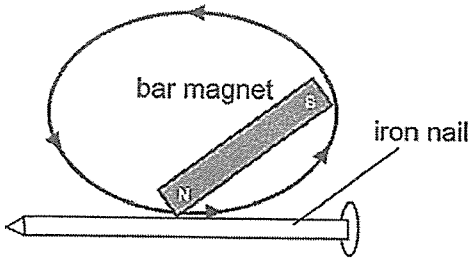
Container	Time taken to completely digest the banana (min)
A	35
B	25

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.

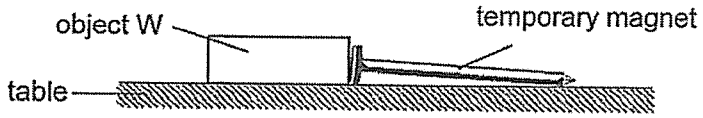
He recorded the results in the table below.

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

SCHOOL : HENRY PARK SCHOOL
LEVEL : PRIMARY 4
SUBJECT : SCIENCE
TERM : 2024 WA1

Q1)	1
Q2)	1
Q3)	4
Q4)	a) The size of the banana. b) The digestive juices break down the banana into pieces. c) The banana in container B, a bigger surface area exposed to the digestive juices had making the banana in container B digested faster.
Q5)	a) As the number of strokes increases, the number of paperclips attracted increases. b) No. Copper is not a magnetic material so it will not be able to attract any paperclips. c) I do not agree with him. Object W could be a magnetic material, and magnets can attract and repel each other. So Ido not agree with him.