Henry Park Primary School
Primary 5 Science
Term Review 1

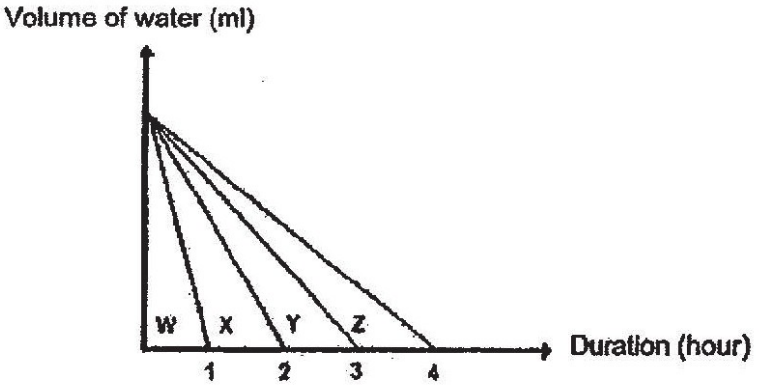
Name : _____ ( ) Class: Primary 5 _____

Section A : Multiple - Choice Questions

For each question from 1 to 7, four options are given. One of them is the correct answer.
Make your choice (1, 2, 3 or 4) and write the correct answer (1, 2, 3 or 4) in the table provided.

Q1	Q2	Q3	Q4	Q5	Q6	Q7

1. Ben left 4 identical beakers of water, W, X, Y and Z, at different locations under different conditions. The graph below shows how the amount of water in each beaker changed over time.



He wrote the following statements to explain the difference in the amount of water evaporated from each beaker.

A : There is presence of wind at Beaker Z's location but not at Beaker W's location.
B : The temperature of the surroundings at Beaker W's location is the highest.
C : The amount of water in Beaker Z is the most at the start of the experiment.
D : The exposed surface area of water in Beaker Y is larger than that in Beaker X.

Which of the following statement(s) made by Ben is/are possible reason(s) for the graph above?

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

2. The water cycle on Earth is a continuous process because water _____.

A : changes state as heat is gained or lost
B : has no definite shape but has a definite volume
C : can evaporate and condense at any temperature
D : condenses when it comes into contact with a cooler surface

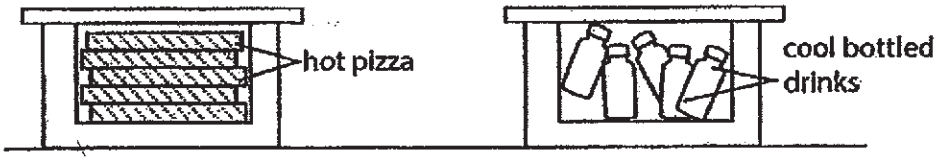
(1) D only
(2) A and B only
(3) B and C only
(4) A, C and D only

3. Lily placed a wooden spoon and a metal spoon on a block of ice for an hour. When she removed the spoons from the block of ice at the same time, her hands felt that the metal spoon was colder than the wooden spoon.

Which of the following explains why her hands felt that the metal spoon was colder than the wooden spoon?

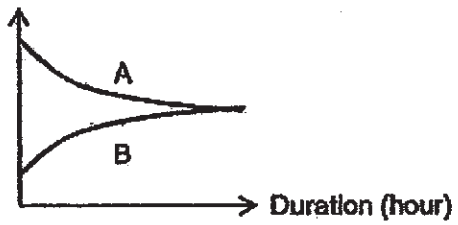
(1) The metal spoon traps the coldness of the ice cube.
(2) The metal spoon spreads the coldness to her hands.
(3) The wooden spoon conducted heat faster than the metal spoon.
(4) The wooden spoon conducted heat slower than the metal spoon.

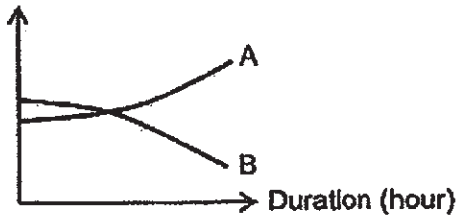
4. Cheryl went for a class party with 2 identical boxes, A and B, as shown below.

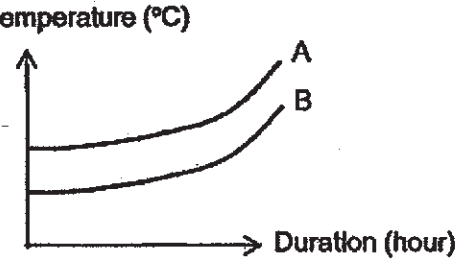


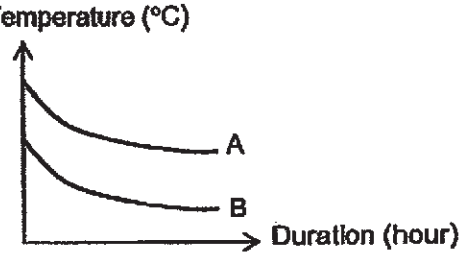
Styrofoam box A Styrofoam box B

Based on the above set-ups, which one of the following graphs most likely represents the change in temperature of the contents in the 2 boxes after a few hours?

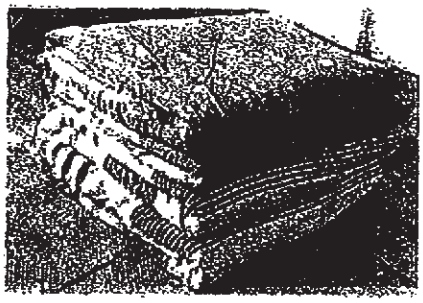
(1)


(2)


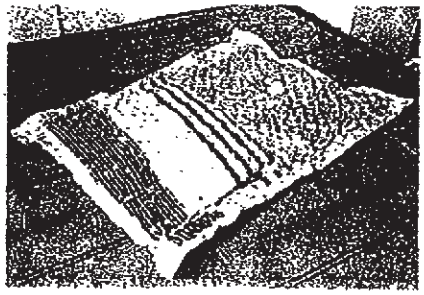
(3)


(4)


5. Mrs Lee wanted to store as many bedsheets as possible in her cupboard. She decided to use a vacuum storage bag to help her do so. A vacuum storage bag allows the air in the bedsheets to be sucked out.



bedsheets

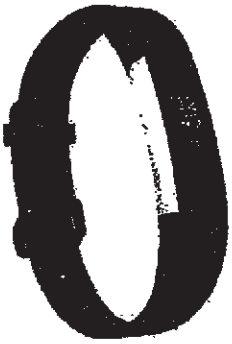


bedsheets in a vacuum storage bag

Why was Mrs Lee able to store more bedsheets in her cupboard with the use of vacuum storage bags?

(1) Air has mass.
(2) Air occupies space.
(3) Air has no definite shape.
(4) Air has no definite volume.

6. Fitbit is a fitness band worn on a person's wrist to track physical activity..



Fitbit

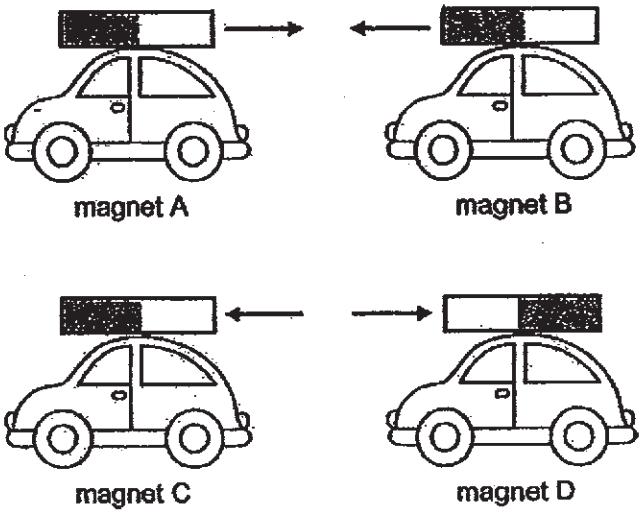
Based on the properties shown below, which material is most suitable for making the wristband of a Fitbit?

	Material	Property			
		strong	flexible	waterproof	good conductor of heat
(1)	A	x	✓	x	✓
(2)	B	✓	x	✓	x
(3)	C	✓	✓	✓	x
(4)	D	✓	✓	✓	✓

Key

✓: yes
X: no

7. Jiaming placed 4 magnets, A, B, C and D, on four toy cars as shown in the diagram below.



He observed the following interactions between the cars with magnets attached to them.

P: Magnet A and B moved towards each other.
Q: Magnet C and D moved away from each other.

Based on this experiment, what could Jiaming conclude about magnets?

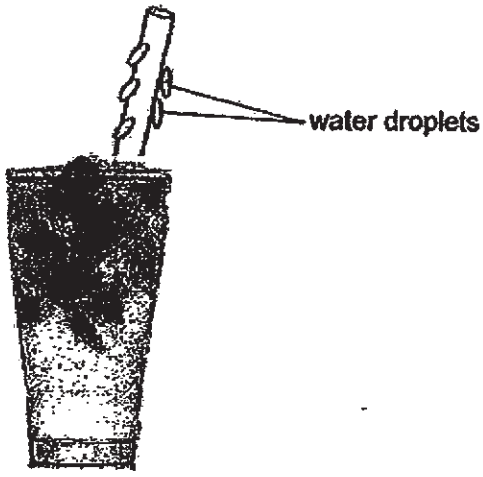
(1) A magnet is strongest at its poles.
(2) Only magnets can repel each other.
(3) Magnets attract magnetic materials.
(4) Like poles repel while unlike poles attract.

Section B: Open-Ended Questions

For each question from 8 to 12, write your answers in the spaces given.

8. Allison and Bella bought two cups of cold drinks. In order to reduce the use of plastic, Allison used a metal straw and Bella used a bamboo straw made from bamboo stalks.

After 30 minutes of chatting and drinking, Allison observed that there were water droplets forming on the outside of her straw but not on Bella's bamboo straw.



Allison's drink with metal straw

Bella's drink with bamboo straw

Explain why there were water droplets formed on the outside of Allison's metal straw but not on Bella's bamboo straw. [2]

9. Cups A and B, each made of different materials, were filled with the same amount of water at 3 °C at the same time. Both cups were left in a room at 30 °C. Cup B felt colder than cup A when touched and water vapour condensed on cup B more quickly than on cup A.

Cup A

Cup B

The temperature of water in both cups was measured every 5 minutes.

The table below shows the changes in the temperature of water in cup A over a period of 20 minutes.

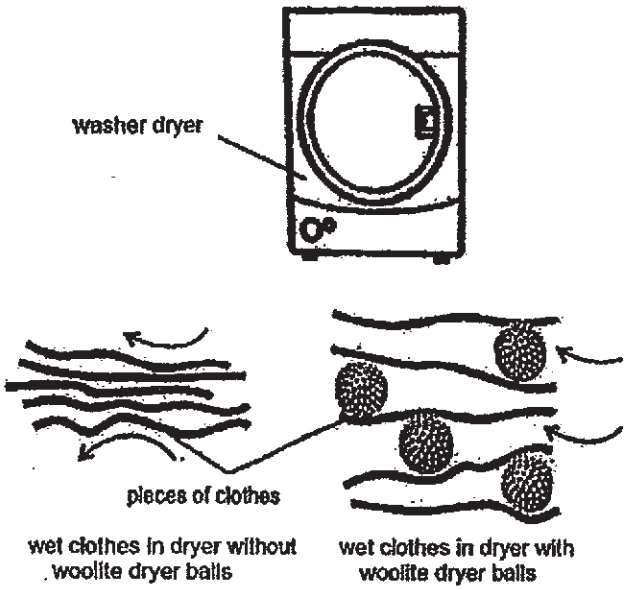
Time (min)	0	5	10	15	20
Temperature of water (°C)	3	10	12	16	19

a) Would the temperature of the water in cup B be higher than, lower than or the same as 19 °C at the 20th minute? Explain your answer. [2]

b) Cup A would be more suitable for keeping hot drinks warm for a longer period of time than cup B. Explain why. [1]

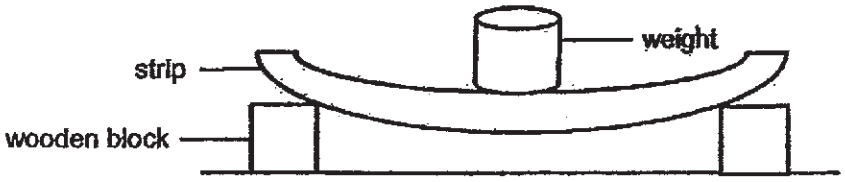
10. A washer dryer is a machine that tumble dries wet clothes using hot air.
Stacy added woolite dryer balls in between her wet clothes in the dryer to shorten the time taken for the pieces of clothes to dry.

Note: The woolite dryer balls help your clothes come out of the dryer feeling soft. These clothes dryer balls also reduce drying time, saving both time and money.



Explain how having the woolite dryer balls between the clothes help to shorten the time taken for the pieces of wet clothes to dry. [2]

11. Yani set up an experiment as shown below to compare a property of three strips, X, Y and Z, which are made of different materials.



For each strip, she placed a weight of a different mass on it until it tore.

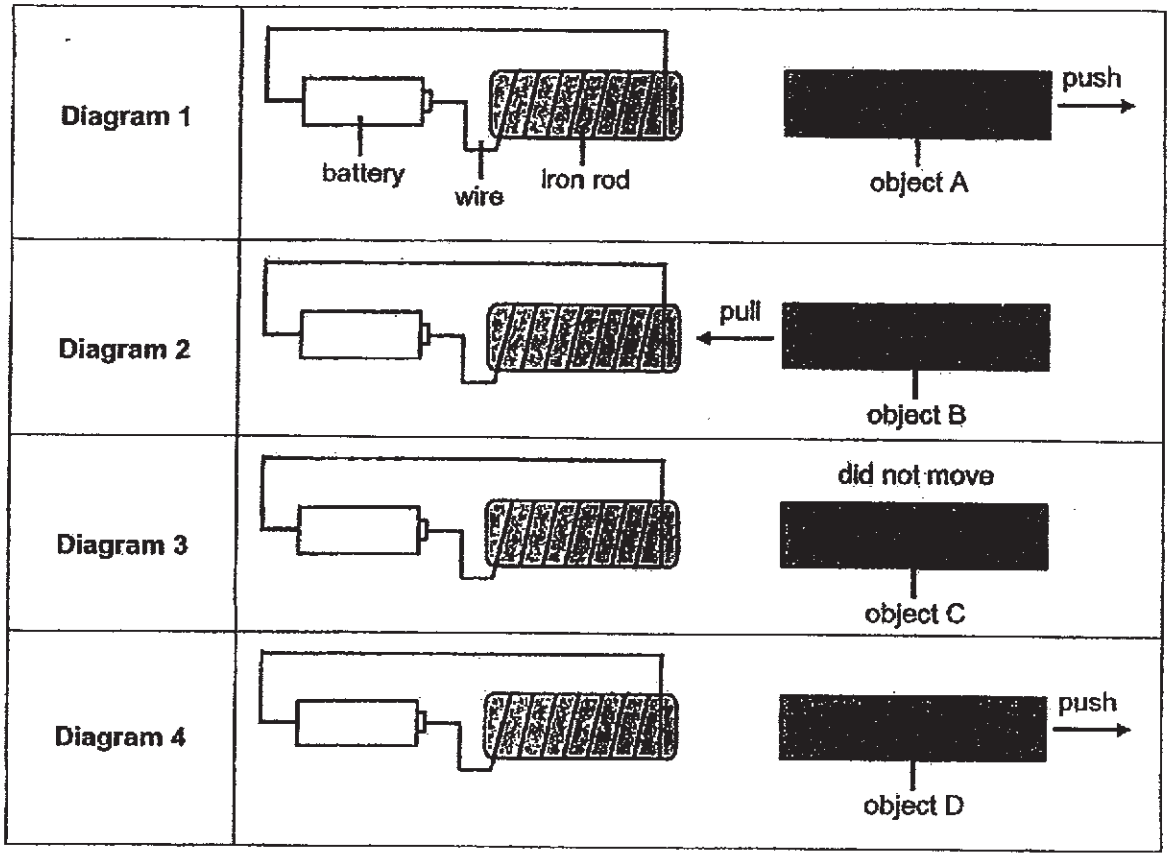
Her results are shown in the table below.

Strip	Mass of weight placed on the strip (kg)
X	5.0
Y	7.5
Z	2.5

a) Name the property of material that Yani was testing using this experiment. [1]

b) Based on the results of the experiment, which material, X, Y or Z, is the most suitable to make a schoolbag? Explain your answer. [1]

12. Shauna drew four diagrams, 1, 2, 3 and 4, as shown below.



a) State what had happened to the iron rods in all the diagrams. [1]

b) Based on the diagrams shown above, which object(s), A, B, C, or D, is/are definitely magnet(s)? Explain your answer. [1]

~ End of Term Review ~

SCHOOL : HENRY PARK PRIMARY SCHOOL
LEVEL : PRIMARY 5
SUBJECT : SCIENCE
TERM : 2019 CA1

SECTION A

Q 1	Q2	Q3	Q4	Q5	Q6	Q7
1	4	4	1	2	3	4

Correction sheet for P5 Science Term Review

Qn	Suggested answer	Student's correction
8	The metal straw has a cooler surface. The water vapour in the surrounding air comes into contact with it, loses heat quickly and condenses into water droplets.	
9a	Higher. The material of cup B is a better conductor of heat, thus the water in cup B gains heat faster from the surrounding air.	
9b	The material of cup A is a poorer conductor of heat. The hot drinks in the cup loses heat more slowly to the surrounding air, thus keeping it warm for a longer period of time.	
10	There are larger gaps between the clothes because of the woolite dryer balls. There is bigger exposed surface area with the hot air and so water can more heat and evaporate faster.	
11a	Strength	
12a	The iron rods became electromagnets.	
12b	Objects A and D. Objects A and D were repelled by the electromagnets and only magnets can be repelled by another magnet.	