

Name: .....

Date: .....

## **THEME 2 – ENERGY AND FORCES.**

Answer the following questions in the spaces provided.

### **Unit 1: Heat Energy.**

1. Harisah carried out an experiment to find out if Material A or Material B is a better conductor of heat. The steps taken are shown below. **(PSR, 2018)**

#### **Step 1:**

She poured the same amount of water into two cups made of different materials labelled Material A and Material B. Both cups have the same thickness and size.

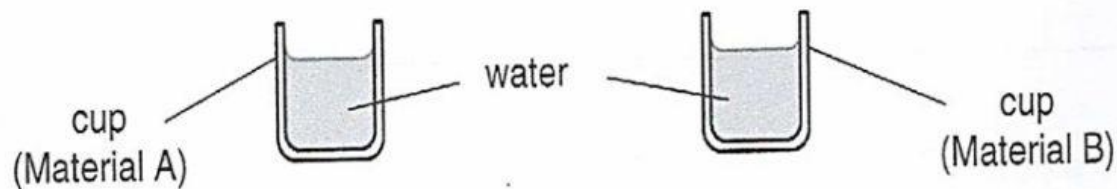


Figure 2a

#### **Step 2:**

Harisah places thermometers in each cup. Next, she heats both cups at the same time with the same amount of heat. Immediately, she recorded the time taken for the water at cup (Material A) and cup (Material B) to reach 80 °C.

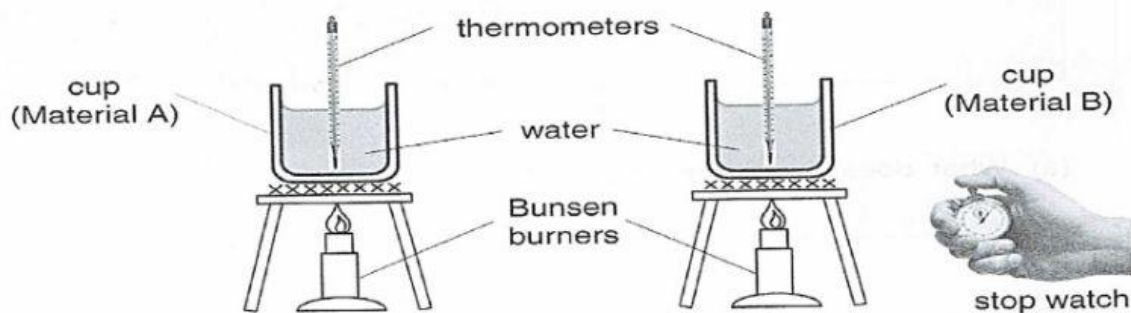


Figure 2b

Study the set-up of the experiment in Figure 2a and Figure 2b.

a) Describe three (3) things that Harisah did to make sure that her experiment is **fair**.

- (i) \_\_\_\_\_
- (ii) \_\_\_\_\_
- (iii) \_\_\_\_\_

The result of the experiment is shown in Table 2.

Material	Time taken to reach 80 °C.(minutes)
A	6 min
B	3 min

Table 2

b) In which material did water take longer time to heat up to reach 80 °C?

Material: \_\_\_\_\_

c) Which material is a better conductor of heat?

Material: \_\_\_\_\_

[5 marks]

Marks: \_\_\_\_\_ / 5

Percentage: \_\_\_\_\_ %

Parents' / Guardian's signature : \_\_\_\_\_

Parents' / Guardian's feedbacks:

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