

Name: Date:

THEME 2 – ENERGY AND FORCES.

Answer the following questions in the spaces provided.

Unit 4 : Sound Energy.

1. In this experiment, Malik investigated on how sound travelled through two different materials, cotton and wire. He connected the two different materials to cup A and cup B, as shown in Figure 10 below. Hanita talked through on end of the cup and then Malik who was on the other end will write the results. *(PSR, 2020)*

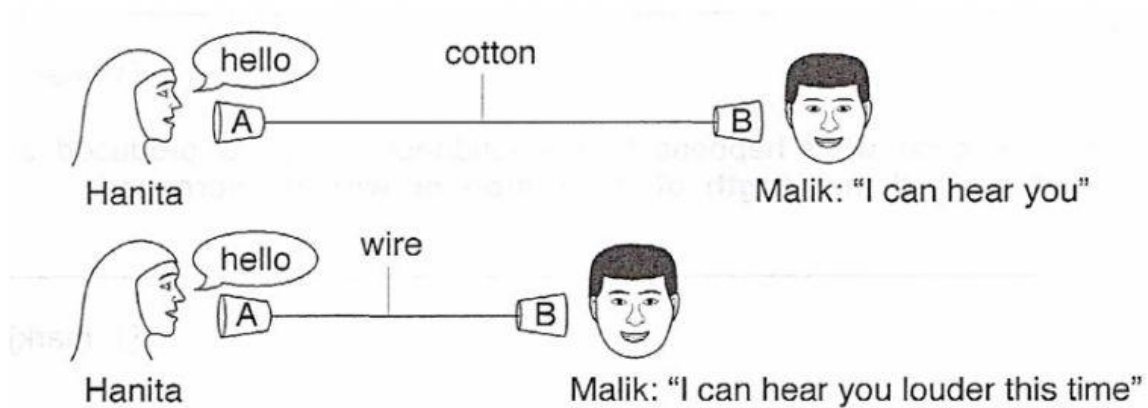


Figure 10

- (i) What actually happens to the cotton or wire material used in the experiment for Malik to be able to hear the sound at cup B?

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- (ii) How does the sound travel through to reach Malik's ear in figure 10?

Pleas tick (✓) the correct answer.

Solid	
Liquid	
Gas	

(iii) State **two (2) factors** that are changes in Malik's experiment as shown in Figure 10.

(a) _____

(b) _____

(iv) From the experiment, Malik concludes that wire material produces a louder sound than cotton, but his teacher says that his experiment in Figure 10 is unfair. State **one (1)** factor that Malik should actually keep the same to make the experiment fair.

(v) Describe what happens to the loudness of sound produced at cup B, if the **length of the cotton or wire is increased**.

[8 marks]

Marks: _____ / 5

Percentage: _____ %

Parents' / Guardian's signature : _____

Parents' / Guardian's feedbacks:

