

ATOMIC ENERGY EDUCATION SOCIETY

Class 8 Science

Lesson 13

Sound (Worksheet 1)

Q1. Answer the following questions.

- a) How is sound produced?
- b) How do we produce sound? Explain.
- c) Can sound travel through vacuum? Describe an experiment to explain your answer.
- d) Describe an experiment to show that sound can travel in water.
- e) Describe an experiment to show that sound can travel in a solid.
- f) Can two persons hear each other on moon's surface? Why?
- g) How do we hear sound? Explain and draw the diagram of human ear.

Q2. Fill in the gaps.

- a) Sound is produced when a body _____.
- b) Sound needs a _____ for propagation.
- c) Sound travels faster in _____ than in liquids.
- d) Sound is a form of _____.
- e) In humans, the sound is produced by _____.
- f) Putting a sharp object in the ear can damage the _____.

Q3. Numericals.

1. A boy fires a gun and another boy at a distance of 1020m hears the sound of firing the gun 3second after seeing its smoke. Find the speed of sound.
2. A boy on a hill **A** fires a gun. The other boy on hill **B** hears the sound after 4s. If the speed of sound is 330m/s, find the distance between the two hills.