



## Science Department

# The Nature of Sound

Directions: Answer the following questions by writing your answer.

1. What is sound?

Sound is a mechanical wave that travels through a medium.

2. How does sound travel through a vacuum? (Is it possible?)

Sound is a mechanical wave that travels through a medium. It cannot travel through a vacuum.

3. Can you hear the ringing sound of a bell if you are in a vacuum?

No, because sound waves cannot travel through a vacuum.

4. Describe a longitudinal wave and a transverse wave.

A longitudinal wave is a wave in which the particles of the medium move parallel to the direction of the wave. A transverse wave is a wave in which the particles of the medium move perpendicular to the direction of the wave.

5. How does sound travel through a vacuum?

Sound waves travel through a vacuum. This is because sound waves are mechanical waves and they can travel through a vacuum.

6. The speed of sound is 343 m/s in air at 20°C. How fast is it in water?

It is 1482 m/s in water at 20°C.

Directions: Complete the following table.

|          |          |
|----------|----------|
| 1. _____ | 2. _____ |
| 3. _____ | 4. _____ |
| 5. _____ | 6. _____ |
| 7. _____ | 8. _____ |



Fig. 10.10.1

## Section 4 Reinforcement Using Sound Answers

**Huangqi Zhang**



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