

## Sound Study Guide

### I. What is Sound?

- **Definition:** Sound is a form of energy that travels by waves through a medium (solid, liquid, or gas).
- **Production:** Sound is produced by vibrations. When an object vibrates, it causes the surrounding molecules to vibrate, creating a sound wave.

### II. How Sound Travels

- **Sound Waves:** Sound travels in longitudinal waves, which means the particles of the medium vibrate in the same direction that the wave travels.
- **Compression and Rarefaction:** Sound waves consist of compressions (areas of high pressure) and rarefactions (areas of low pressure).
- **Speed of Sound:** The speed of sound depends on the medium it travels through. It travels fastest in solids, then liquids, and slowest in gases. This is because the molecules are closer together in denser materials.
  - Factors affecting speed: Temperature, density, and elasticity of the medium.

### III. Properties of Sound

- **Pitch:** How high or low a sound seems. It is determined by the frequency of the sound wave. Higher frequency = higher pitch.
- **Loudness:** How strong a sound seems. It is determined by the amplitude of the sound wave. Higher amplitude = louder sound.
- **Timbres:** The quality of a sound that distinguishes it from other sounds of the same pitch and loudness. It is determined by the complexity\* of the sound wave (the combination of different frequencies).

### IV. How We Hear

- **Structure of the Ear:**
  - **Outer Ear:** Collects sound waves and channels them into the ear canal.
  - **Middle Ear:** Contains the eardrum and ossicles (malleus, incus, stapes). The eardrum vibrates when sound waves hit it, and the ossicles amplify the vibrations and transmit them to the inner ear.

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**JL Elias**

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