











Sound


- Sound is produced by **vibrations**
- Sound needs a **medium** to travel
- Sound is a **longitudinal wave**
- Sound waves have **compressions and rarefactions**
- **Amplitude** → loudness
- **Frequency** → pitch
- **Frequency unit** → Hz
- **Loudness unit** → decibel (dB)
- **Audible range** → 20 Hz to 20,000 Hz
- **Below 20 Hz** → infrasonic
- **Above 20,000 Hz** → ultrasonic
- Sound travels **fastest in solids**
- Sound **cannot travel in vacuum**
- **String instruments** → vibrating strings
- **Wind instruments** → vibrating air column
- **Membrane instruments** → vibrating membrane

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