

Sound & Sound Waves ☆ ○○ Solutions ☆ ○○

- 1 Sound is a longitudinal pressure wave in a medium.
Airborne sound $v \approx 343 \text{ m/s}$ at 20°C .
- 2 Sound waves are caused by particle vibrations.
The standard pitch A vibrates at 440 Hz .
- 3 Frequency is the number of vibrations per second.
 $1 \text{ Hz} = 1 \text{ vibration/s}$.
- 4 Amplitude is the maximum deflection of the wave.
 $1 \text{ Pa amplitude} \approx 94 \text{ dB}$.
- 5 Wavelength $\lambda = c / f$ in meters.
At 1000 Hz , $\lambda \approx 0.343 \text{ m}$.
- 6 Ultrasound has frequencies $>20 \text{ kHz}$.
Medicine uses $1\text{--}15 \text{ MHz}$.
- 7 Human hearing range: $20 \text{ Hz--}20 \text{ kHz}$.
With age, the upper limit drops to 16 kHz .
- 8 Sound pressure level measures the level in dB SPL.
 $0 \text{ dB} = 20 \text{ }\mu\text{Pa}$, $94 \text{ dB} = 1 \text{ Pa}$.
- 9 Sound requires a medium to propagate.
In water, $v \approx 1482 \text{ m/s}$ at 20°C .
- 10 The Doppler effect changes the frequency when in motion.
At 30 m/s , the shift at 1000 Hz is $\approx 88 \text{ Hz}$.

Sound And Waves Murray Answers

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