



Key Facts to Remember

- Sound is made by vibrations: When an object vibrates, it causes particles in the surrounding air (or other materials) to move, creating sound waves.
- Vibrations travel through a medium: Sound travels through air, water, and solids. Without a medium, sound cannot travel.
- Pitch depends on vibrations: The pitch of a sound (high or low) depends on how fast or slow an object vibrates. Faster vibrations create higher pitches, and slower vibrations create lower pitches.
- Volume depends on vibration strength: The loudness (volume) of a sound depends on how strong or weak the vibrations are. Bigger vibrations make louder sounds, and smaller vibrations make quieter sounds.
- Sounds get quieter with distance: As you move away from a sound source, the sound gets quieter because the vibrations lose energy.
- Different materials make different sounds: Objects of different sizes, shapes, and materials produce different sounds because of the way they vibrate.

Vibrations of sound travelling from a source.



