



YEAR 4 - SOUND

Words	Definition
sound	Sound is created when something vibrates and sends waves of energy (vibration) into our ears.
sound waves	invisible waves that travel through the air, water and solid objects as vibrations.
sound source	means any person, animal, device, equipment, operation, process or activity that creates a sound.
sound waves	invisible waves that travel through the air, water and solid objects as vibrations.
decibels	a measure of how loud a sound is – dB
pitch	how high or low a sound is.
amplitude	is a measure of the wave's height. The amplitude of a sound wave determines the sound's loudness.
volume	how loud or quiet a sound is
insulation	material that stops the travel of energy (including sound).
insulation	means quickly moving back and forth (or up and down)
medium	something that makes it possible to transfer energy from one location to another

We can wear ear defenders to protect our ears from very loud sounds.



AMPLITUDE

PITCH

How do we hear sounds?

Sounds are created when something vibrates (shakes back and forth).

↓

This creates soundwaves which travel to the ears of the listener.

↓

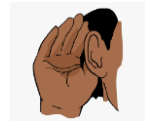
When a bell is struck, the metal of the bell vibrates. These vibrations create waves in the air (sound waves).

↓

When they reach our ears, they make our eardrums vibrate, and we hear the sound of the bell ringing.



As distance increasing from the sound source, the fainter the sound becomes



Sound waves travel to the ear and make the ear drum vibrate.

