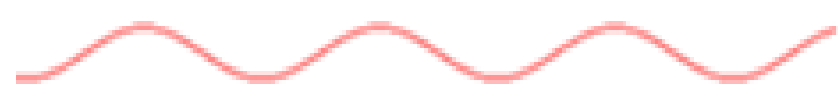

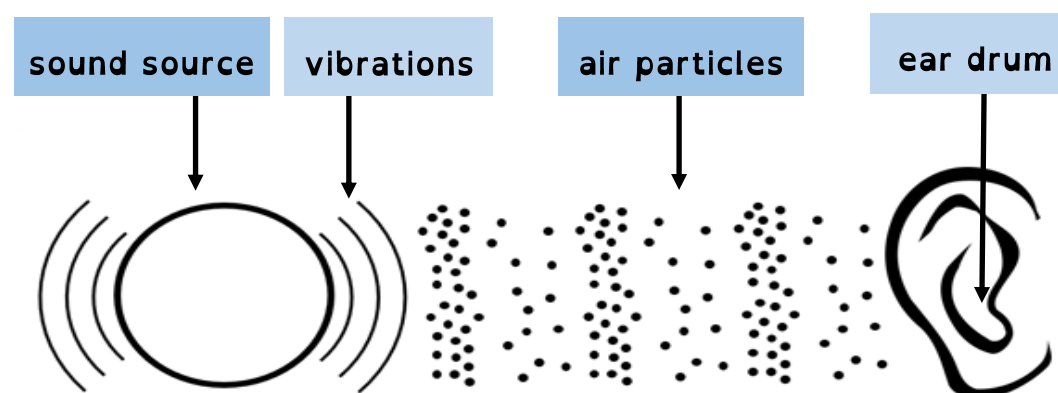


Year 4 Science- Sound

Vocabulary	Definition
sound	Something that can be heard.
sound source	Where the sound comes from.
vibration	When something moves quickly back and forth.
pitch	How high or low a sound is.
volume	How loud or quiet a sound is.
sound insulator	A material which blocks or reflects the sound waves.
amplitude	The size of a vibration.
air particles	Tiny gases all around us which cannot be seen.
travel	How something moves.

Pitch
Low pitch sounds are created by long sound waves.
High pitch sounds are created by short sound waves.

	Long, slow sound wave	Low pitch
	Short, quick sound wave	High pitch



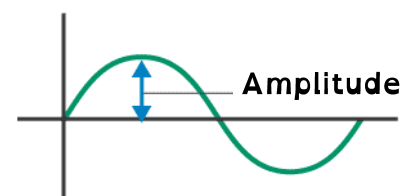
When a sound source vibrates, the air particles around it also vibrate. The vibrating air travels and we call these travelling vibrations 'sound waves'.
Sound waves can travel through solids, liquids and gases.

Volume

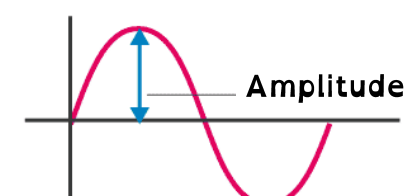
The **closer** you are to the sound source, the **louder** the sound will be.

The **further away** you are from the source of the sound, the **quieter** the sound will be.

The volume of a sound depends on the amplitude (size) of the sound wave:



Smaller amplitude—Quieter sound



Larger amplitude—Louder sound

Some sounds are so loud that they can damage our ear drums.
A **sound insulator** is a material which **blocks or reflects the sound waves** so that the sound seems quieter when it reaches our ears.

