

What should I already know?
 Sounds can be combined using musical instruments.
 Hearing is one of my five senses.
 What the word vibration means.



Y4: Sound

Key Knowledge

A sound produces vibrations which travel through a medium from the source to our ears.

Different mediums such as solids, liquids and gases can carry sound, but sound cannot travel through a vacuum (an area empty of matter).

The vibrations cause parts of our body inside our ears to vibrate, allowing us to hear (sense) the sound.

The loudness (volume) of the sound depends on the strength (size) of vibrations which decreases as they travel through the medium. Therefore, sounds decrease in volume as you move away from the source.

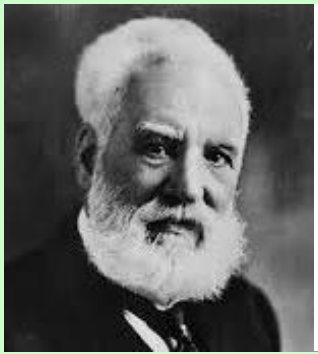
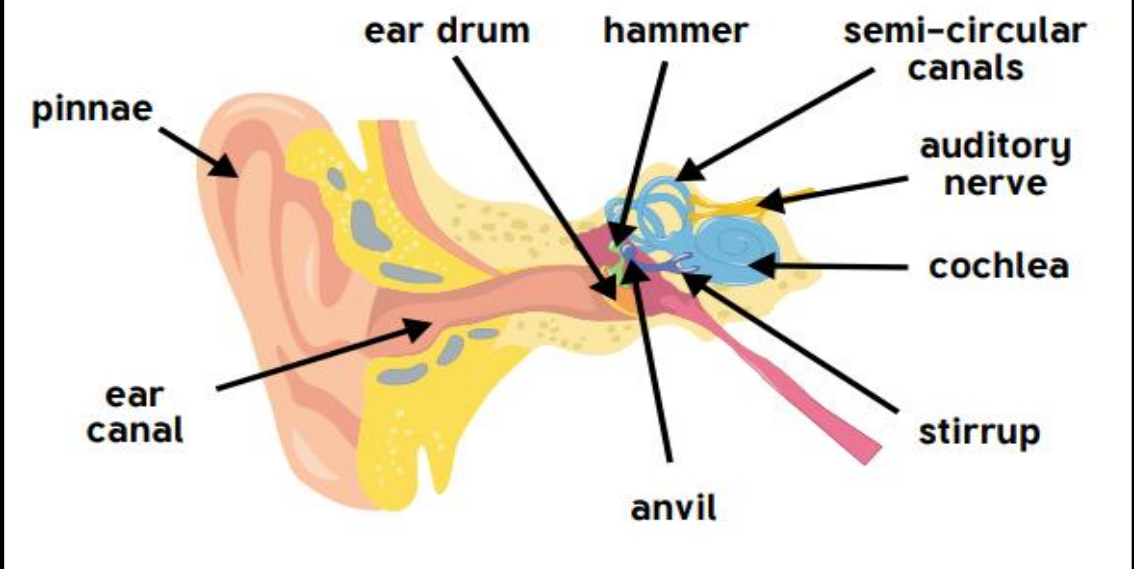
A sound insulator is a material which blocks sound effectively.

Pitch is the highness or lowness of a sound and is affected by features of objects producing the sounds. For example, smaller objects usually produce higher pitched sounds.

Key Vocabulary

Sound	What we hear with our ears.
Source	Where the sound comes from.
Vibrate	Shake or move quickly.
Vibration	Quick shaking or movement.
Travel	Move from one place to another.
Pitch	How high or low a sound is.
Volume	How loud or soft a sound is.
Faint	A very quiet sound.
Loud	A very strong sound.
Insulation	Materials used to stop sound travelling through.

The Ear



Alexander Graham Bell (1847-1922) was a famous inventor who created the telephone. He first became interested in the science of sound because both his mother and wife were deaf.