

# Materials

Recognise that vibrations from sounds travel through a medium to the ear

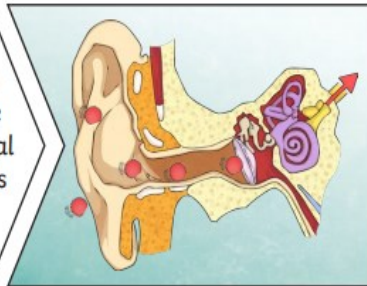
When you hit the drum, the drum skin **vibrates**. This makes the air **particles** closest to the drum start to **vibrate** as well.



The **vibrations** then pass to the next air **particle**, then the next, then the next. This carries on until the air **particles** closest to your ear **vibrate**, passing the **vibrations** into your **ear**.



Inside your **ear**, the **vibrations** hit the **eardrum** and are then passed to the middle and then the inner **ear**. They are then changed into electrical signals and sent to your brain. Your brain tells you that you are hearing a sound.



Sound is a type of energy. Sounds are created by **vibrations**. The louder the sound, the bigger the **vibration**.



**Pitch** is a measure of how high or low a sound is. A whistle being blown creates a high-**pitched** sound. A rumble of thunder is an example of a low-**pitched** sound.



Key Vocabulary	Definition
Vibration	A movement backwards and forwards
Medium	Sound travels through a medium which can be a
Pitch	The measure of how high or low a sound is
Sound wave	Vibrations travelling from a sound source
Volume	How loud a sound is
Insulate	You can reduce sound by insulating a medium
Faint	A sound with little strength (a quiet sound)
Air	The invisible gas that surrounds us on earth
Loud	A sound with a lot of strength (a noisy sound)