

# Sound

## Key vocabulary

vibration	A quick movement back and forth.
Sound waves	A vibration travelling from a sound source.
volume	The loudness of a sound.
pitch	How high or low a sound is.
soundproof	Something used to stop sound passing through.
vacuum	A space where there is nothing so there are no particles to allow sound to travel.
particles	Solid, liquid or gas are made of particles. They are so small we cannot see them.
eardrum	A thin, tough layer inside the ear soundwaves make the eardrum vibrates to hear sound.
amplitude	The size of a vibration.

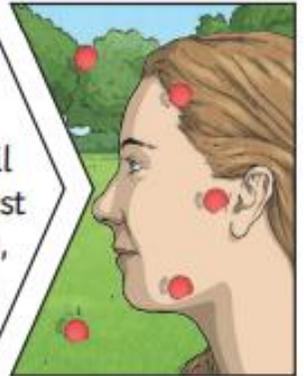
**Pitch** is a measure of how high or low a sound is. A whistle being blown creates a high-pitched sound. A rumble of thunder is an example of a low-pitched sound.



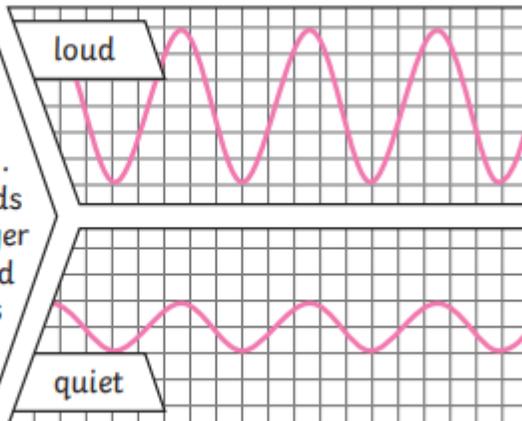
When you hit the drum, the drum skin vibrates. This makes the air particles closest to the drum start to vibrate as well.



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.



The size of the vibration is called the amplitude. Louder sounds have a larger amplitude, and quieter sounds have a smaller amplitude.



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.

