



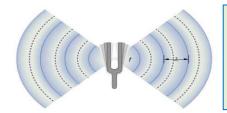
Knowledge Organiser – Sounds (Science Year 4)

Key	Definition
Vocabulary	
Sound	Energy that travels in waves through air, water, or other substances, and can be heard.
Vibration	Movement back and forth.
Pitch	Frequency of a sound wave.
Volume	How loud or quiet the sound is
Insulation	Substance that stops heat, electricity or sound from passing.

Sound is a form of energy like light. Both travel in waves and can be reflected

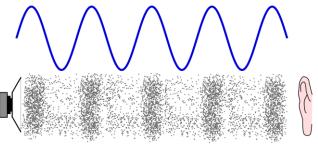
A sound vibration spreads out in all directions from its sources, like ripples from a pond.

Sound is made when something vibrates.



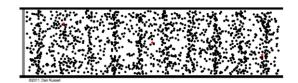
Vibration is a rapid back-and-forth movement.

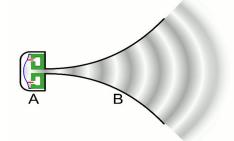
Sound waves are caused by vibrations in the air.



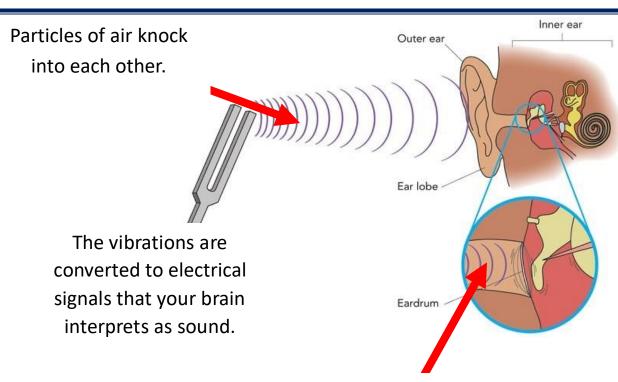
These air particles vibrate too and then bump into other air particles which then start to vibrate and so on.

When an object vibrates, it causes movement in the air particles.

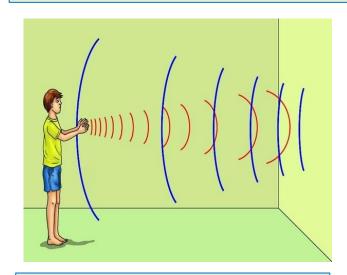




This continues in waves until the vibrations run out of energy. If the vibrations reach your ears, you will hear the sound.

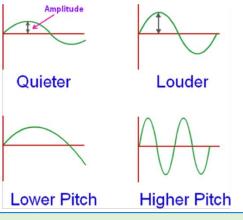


The number of vibrations per second is called the frequency of sound.



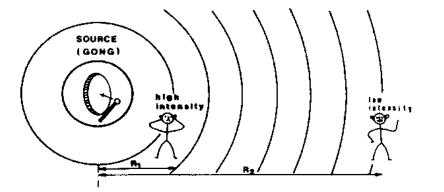
Sound that has been reflected is called an echo.

VOLUME (amplitude) describes how loud or quiet a sound is.



PITCH describes how low or high a sound is.

These vibrations reach the ear and make the eardrum vibrate.



Sounds get softer the further away you are from the source of the sound because the vibrations lose strength as they travel through the air.