

Can you hear it?

1. How are sounds made?
2. How does the ear work?
3. What is pitch?
4. Can I investigate volume?
5. How does sound change?

Interesting Facts

Dolphins can hear sounds underwater from up to 15 miles away.

A squeak from a mouse is a high-pitched sound and this means it vibrates quickly.

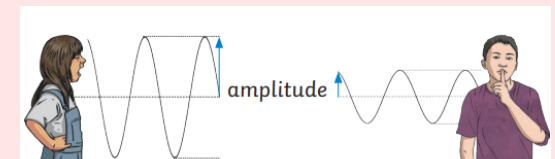
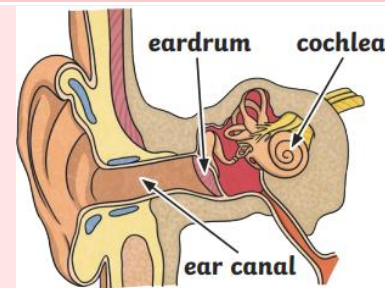
The sound of a lion's roar has a lower pitch and vibrates slowly.

Sound travels much slower than light, whether in the air or in water. Light travels at 186,000 miles per second, whilst sound travels at 770 miles per hour.

You often hear things after you see them - for example, you see the lightning before you hear the thunder!

Word	Definition
ear	The ear is an organ that allows humans to hear.
volume	How loud or quiet a sound is.
vibration	A quick continuous movement.
pitch	How high or low a sound is.
distance	A measure of length between two points.
amplitude	Amplitude is a measure of the greatest distance that a vibration moves across and the height of the sound wave it produces
soundwave	The movement of energy created by the vibration of a sound source.
soundproof	Soundproof objects and materials do not allow sound to pass into or through them.

Useful Pictures/Diagrams



A louder sound has a larger **amplitude**.

A quieter sound has a smaller **amplitude**.