Science - Sound

Year 4 Autumn 1

Overview

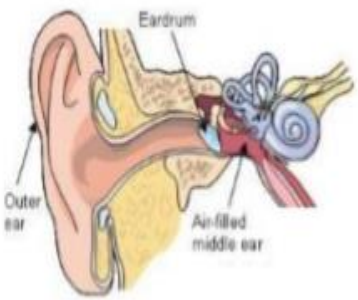
This topic examines how sounds are made, associating some of them with something vibrating. We will learn about how vibrations from sounds travel through a medium to the ear and how the brain translates the sound. We will investigate pitch and volume by exploring instruments and the different sounds they make.

Key Vocabulary

Word	Definition
Vibration	Move continuously backwards and forwards.
Sound wave	Vibrations travelling from a source.
Source	The beginning: where something comes from.
Volume	The loudness of a sound.
Amplitude	The size of a vibration .
Pitch	How high or low a sound is.
Ear	An organ used for hearing.
Soundproof	T o prevent sound from passing.
Sound insulator	A material that reduces the amount of sound passing through it.
Medium	any matter (solid, liquid or gas) that allows sound waves to pass through.
Vacuum	space with no matter (solid, liquid or gas).

Sound Travels to the Ear

Sounds are made when objects **vibrate**. The vibration makes the air around vibrate, and the air vibrations enter your ear. Our brain hears the vibrations and turns this into a sound.



Key knowledge

- Identify how sounds are made.
- Recognise that vibrations from sounds travel through a medium to the ear.
- Identify patterns between the volume of a sound and the strength of the vibrations that produced it.
- Recognise that sounds get fainter as the distance from the sound source increases.