

What have I previously learned?

Explore how things work. (Nursery - Sound)

- Describe what they see, hear and feel whilst outside. (Reception - Sound)
- Identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense. (Y1 - Animals, including humans)

Vocabulary - Goldilocks words

Word	Definition
Pitch (high and low)	Pitch is the highness or lowness of a sound and it is determined by the frequency of vibrations.
Volume	The power of a sound- its degree of loudness.
vibrate	To move continuously and rapidly back and forth.
sources	A place, person, or thing from which something originates. A sound source is the thing that makes the sound.
Travel	To go from one place to another. Sound waves travel from the sound source to the ear of the person or animal hearing the sound.
Insulation	You can insulate something by using certain materials to block the intrusion of sound.

Sticky Knowledge

- A sound produces vibrations which travel through a medium from the source to our ears.
- Different mediums such as solids, liquids and gases can carry sound, but sound cannot travel through a vacuum (an area empty of matter).
- The vibrations cause parts of our body inside our ears to vibrate, allowing us to hear (sense) the sound.
- The loudness (volume) of the sound depends on the strength (size) of vibrations which decreases as they travel through the medium.
- Therefore, sounds decrease in volume as you move away from the source. A sound insulator is a material which blocks sound effectively.
- Pitch is the highness or lowness of a sound and is affected by features of objects producing the sounds.
- For example, smaller objects usually produce higher pitched sounds.

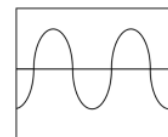
Useful links

[Who was Isaac Newton? | Science Max \(youtube.com\)](#)

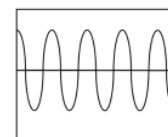
[Professor Val Gibson recreates Newton's famous speed of sound experiment in Nevile's Court \(youtube.com\)](#)

- [How Sound Travels Across Different Mediums \(youtube.com\)](#)

Prompts to help me in my learning



low pitch



high pitch

