

**Prior learning to reactivate**

This is the first time this subject is taught within the Primary Curriculum.

- Hearing is one of the five senses and that we hear sound (EYFS)

Key learning

Sounds are made when something vibrates.

Vibrations from sounds cause waves which travel through a medium (for example, the air, water) to the ear.

Some mediums are more effective at allowing sounds to travel through them than others.

The **pitch** of a sound (how high or low it is) depends on the **speed** of the vibrations.

The **volume** of a sound (how loud or quiet it is) depends on the **size** of vibrations.

Sounds get fainter as the distance from the sound source increases.

Key vocabulary

Amplitude	A measure which shows how strong a sound wave is.
Medium	The space or material through which sound waves travel (e.g. solid, liquid or gas).
Pitch	How high or low a sound is.
Sound	Something that can be heard. Made by vibrations.
Sound source	Where a sound comes from.
Speed	How quickly something happens.
Vibration	Invisible waves of movement back and forth.
Volume	How loud or quiet a sound is.
Waves	How sound travels, through invisible vibrations.

SCIENTIFIC SKILLS

By the end of the year, children should be able to...

- Ask their own questions relating to the topic
- Make predictions about the outcomes of investigations
- Set up simple practical investigations
- Be able to identify simple ways in which a fair test can be created
- Make simple observations, including through the use of a range of recording/measurement equipment
- Gather and record data
- Present data in a variety of ways, including diagrams, charts, tables, and graphs
- Draw simple conclusions on results and link back to the theory discussed
- Suggest improvements for further investigations

Opportunities for scientific enquiry within the unit:

- Testing different materials for how well they conduct sound
- Investigating strength of vibration and the volume of the sound produced
- Investigating the size of an object and the pitch of the sound it makes

