

Linked learning theme: My Life, My World

Autumn term, Year 4

Science – Sound

Prior Knowledge

In EYFS children observed and interacted with sound causing vibration. They have learnt about their senses, including hearing.

Core knowledge

- Sounds are produced when something vibrates.
- We sense sound with our ears.
- Sound needs a medium to travel through such as air or water. That's why we can't hear sounds in space.
- Volume is how loud or quiet a sound is.
- Loud sounds make big vibrations and quiet sounds make small vibrations.
- Sounds get fainter as the distance from the sound source increases.
- Pitch is how high or low a sound is.
- A shorter tube or a thinner or tighter string will produce a higher sound.

Key skills

- Ask relevant scientific questions.
- Carry out practical enquiries, making careful observations and comparisons
- Use results to draw simple conclusions.
- Record and explain findings using scientific language.

Vocabulary

vibrate	volume	ear drum
vibration	pitch	
medium	sound source	

Learning Outcomes

- I can identify how sounds are made, associating some of them with something vibrating.
- I can recognise that vibrations from sounds travel through a medium to the ear.
- I can find patterns between the pitch of a sound and features of the object that produced it.
- I can find patterns between the volume of a sound and the strength of the vibrations that produced it.
- I can recognise that sounds get fainter as the distance from the sound source increases.
- I can ask relevant questions and use different types of scientific enquiries to answer them.
- I can set up simple practical enquiries, comparative and fair tests.
- I can make systematic and careful observations and, where appropriate, take accurate measurements using standard units, using a range of equipment.