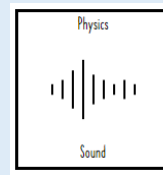


Physics

Sound



Year 3/4 – Autumn 2

What should I already know?

- I know which body part is associated with each sense
- I can name and label the parts of the body
- I know we use our ears to hear sounds

What will I learn?

Sounds are made by objects vibrating.

The air around the object vibrates and these vibrations travel to our eardrums.

A sound wave is a vibration that travels through a solid, liquid or gas.

The features of an object will have an impact on the pitch (small, short, thin objects make a high-pitch, large, long, thick objects make a low-pitch).



Types of Enquiry

Observing changes over time

Pattern seeking

Identifying, groups & classifying

Comparative and Fair testing

Research

Tier 3 Vocabulary

Energy

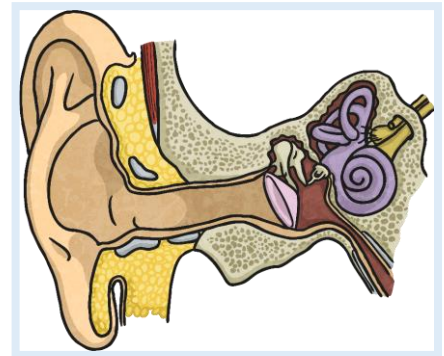
Sound

Vibration

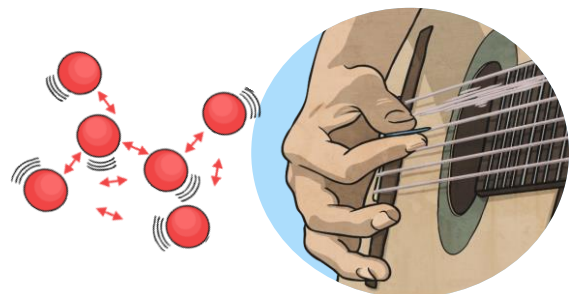
Volume

Pitch

Travel



Inside your ear, the vibrations hit the eardrum and are then passed to the middle and then the inner ear. They are then changed into electrical signals and sent to your brain. Your brain tells you that you are hearing a sound



Working Scientifically Skills

How will I be a scientist?

Plan

I will ask questions to investigate how sound travels.

Do

I will find patterns between features of objects and the pitch they make.

I will set up a comparative test to see which materials absorb sound.

Record

I will record which objects make high and low pitch sounds and identify their features.

Review

I will review which materials are better at absorbing sound and present this to my class