

Science Year 4 Knowledge Organiser



Topic: Sound

National Curriculum Statements

- Identify how sounds are made, associating some of them with something vibrating.
- Recognise that vibrations from sounds travel through a medium to the ear.
- Find patterns between the pitch of a sound and features of the object that produced it.
- Find 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.

Key Vocabulary



sound wave - vibrations travelling from a sound source



ear - an organ used for hearing



frequency - the number of waves that pass a fixed point in time



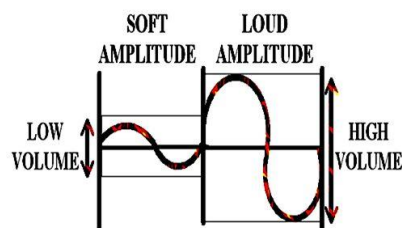
volume - the loudness of a sound



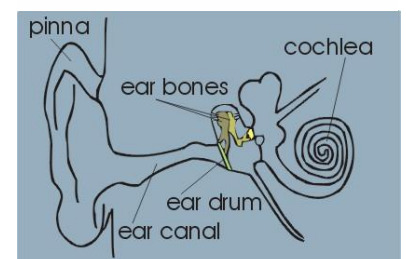
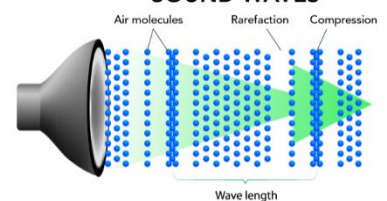
pitch - how high or low a sound is



amplitude - the size of a vibration



SOUND WAVES



Key enquiry questions:

How is sound created?

When is our classroom the quietest?

How does the volume of a drum change as you move further away from it?

Which material is best to use for muffling sound in ear defenders?

How does the length of a guitar string/tuning fork affect the pitch of the sound?

I am a scientist as I gather evidence and use research from previous scientists, to make hypotheses and test them through experiments. I discuss results and draw conclusions.