

Sound



This project teaches children about sound, how sound is made and how sound travels as vibrations through a medium to the ear. They learn about pitch and volume and find out how both can be changed.

- Sound facts;
- Investigating sound;
- Sound waves;
- How we hear sounds;
- Muffling sound investigation; Volume and distance investigation; Changing the volume of sound investigation; Changing the pitch of sound investigation;
- Investigating sound further;
- Working scientifically – identifying and classifying, comparative test, pattern seeking, research

Children will learn that sounds are vibrations that travel from sound sources, such as a person's vocal chords, musical instruments or pieces of machinery, through a solid, liquid or gas to the ears. They will explore the parts of instruments that vibrate to make sound and investigate the pitch, volume, distance and direction of sound. They will learn how sound waves are made and how they travel from a sound source to the ear. They will carry out research to find the answer to the question, 'How do we hear sounds?' and use diagrams and words, such as sound waves, vibrate, pinna, ear canal, eardrum, ossicles, cochlea and cochlear nerve, to record their findings. They will investigate the most effective ways to muffle sound and identify scenarios when muffling sound is important to prevent hearing damage. They will plan an investigation to learn how the volume of sound changes as they move away from a sound source and use a sound meter to measure the volume of sound. They will identify low and high-pitched sounds and then follow instructions to investigate the different ways the pitch of a sound can be changed. They will complete their learning by asking a scientific question about an aspect of sound that interests them before planning and carrying out an investigation to find the answer.

