



## SOUND (PHYSICS)

Statements in *red* are linked from other topics

Progression in Scientific knowledge, concepts & skills	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	KS3
<p style="text-align: center;"><u>Concepts</u> Cause and effect Changes</p> <p style="text-align: center;"><u>Working Scientifically</u></p>	<p>Children know about similarities and difference in relation to places, objects, materials and living things.</p> <p>Children talk about features of their own immediate environment and how environments might vary from one</p>	<p><i>Identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense (Animals including Humans)</i></p>			<p>Identify how sounds are made, associating some of them with vibrations</p> <p>Know how the vibrations from sounds travel through a medium to the ear</p> <p>Find patterns between volume of a sound and the strength of the vibrations that produced it</p> <p>Find patterns</p>			<p>Waves on water as undulations which travel through water with transverse motion; these waves can be reflected, and add or cancel superposition</p> <p>Frequencies of sound waves, measured in Hertz (Hz); echoes, reflection and absorption of sound</p> <p>Sound needs a</p>



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	<p>another</p> <p>Children make observations of animals and plants and explain why some things occur and talk about changes</p>				<p>between the pitch of a sound and the object that produced it</p> <p>Recognise that sounds get fainter as the distance from the sound source increases</p>			<p>medium to travel, the speed of sound in air, in water, in solids</p> <p>Sound produced by vibrations of objects, in loud speakers, detected by their effects on microphone diaphragm and the ear drum; sound waves are longitudinal</p> <p>Auditory range of humans and animals</p> <p>Pressure waves transferring energy; use for cleaning and physiotherapy by ultra-sound</p> <p>Waves transferring</p>
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								information for conversion to electrical signals by microphone
Possible learning questions					How is the sound that your favourite band makes enjoyed by you?			