

Topic: Sound

Term: 4

Beathar

Background Information	Interesting Facts	Key Vocabulary	
 Sound travels in waves Sound can be amplified Buildings and materials can effect how sound 	 Sound comes from vibrations. These vibrations create sound waves which move through mediums such as air and water before reaching our ears. 	Decibels Pitch	A unit for measuring the loudness of sounds. The pitch of a sound is how high or low a sound is
 travels The pitch of sound refers to whether it is high or low. Peoples voices are at different pitches. Sound can be measured (decibels). 	 Our ears vibrate in a similar way to the original source of the vibration, allowing us to hear many different sounds. Dogs can hear sound at a higher frequency than humans, 	Vibrate/ vibration Sound wave	Vibration means quickly moving back and forth (or up and down) about a point of equilibrium. Sound waves are vibrating forms of energy that are made of molecules and look
Diagrama / Timolinea / Photos	allowing them to hear noises that we can't.		like waves. Sound waves can travel through solids, liquids and gases.
Diagrams / Timelines / Photos	• Sound is used by many animals to detect danger, warn- ing them of possible attacks before they happen.	Percussion	The striking of one body against another .
Normal Hearing	• Sound can't travel through a vacuum (an area empty of	Insulation	Materials which restrict or prevent the movement of sounds.
Pinna Malleus (arivit) Sistirup) (hammer) Cochiea Cochiea Auditory nerve	matter).	Sound	Sound is made up of vibrations, or sound waves, that we can hear.
	• The speed of sound is around 767 miles per hour (1,230 kilometres per hour).	Ear drum	The membrane that separates the outer and middle parts of the ear and vibrates when sound waves strike it.
Sound	• The loud noise you create by cracking a whip occurs be- cause the tip is moving so fast it breaks the speed of	Ear canal	This is a tube that helps sound to travel further inside our ear .
External ear canal Tympanic membrane (eardrum)	 when traveling through water, sound moves around four 	Echo	Echoes are created when sound waves hit a hard surface, such as a wall, and then are bounced back again, causing you to hear the
	times faster than when it travels through air.		sound again.
	• The scientific study of sound waves is known as acous-	 Know how to / Activity Try and speak in a high and a low pitch. Find the names of the major parts of the ear. Answer questions such as, 'How does sound travel?' Create a picture based on sound waves. And musical instruments Make a percussion instrument capable of producing different sounds. Make a string telephone out of string and two plastic cups. See how far it is effective. 	
	 Although music can be hard to define, it is often described as a pleasing or meaningful arrangement of sounds. 		
	 The sound of thunder is produced by rapidly heated air surrounding lightning which expands faster than the speed of sound. 		