Grange Park Primary School Year 4 Autumn 2 Science

Sound

Significant Scientists		Key Knowledge		Key Vocabulary		
Alexander Graham Bell	Alexander Graham Bell (1847 - 1922) was a Scottish scientist, inventor and engineer who invented the telephone in 1876.	Sound is a thing that can be heard. The object that makes the sound is called a source.	amplitude	mplitude Measures how strong a sound wave is.		
			decibels	Measure how loud a sound is.		
		When objects vibrate, a sound is made. The vibration makes the air around the object vibrate and the air vibrations enter the ear. These are called sound waves. If an object is making a sound, a part of it is vibrating, even if you cannot see the vibrations.	frequency	Measures the number of times per second that the sound wave cycles.		
Galileo Galilei	The modern study of waves and acoustics is		vibration	Invisible waves that move very quickly.		
Ar	said to have originated with Galileo Galilei (1564 - 1642), who elevated to the level of science the study of vibrations and the correlation between pitch and frequency of the sound source.	Sound waves travel to the ear and make the eardrum vibrate. Messages are sent to the brain which recognises the vibrations as sound.	soundwave	Invisible wave that travels through the air, water and solid objects as vibrations.		
		Sound waves travel through a medium such as air, water, glass, stone, and brick.	volume	How loud or quiet a sound is.		
			pitch	How high or low a sound is.		
Working Scientifically Skills		Sound is measured in different ways.	tone	The quality or character of a sound.		
Plan an enquiry.		Enquiry Skills	insulation	When sound waves are prevented from permeating.		
Gather, record, classify and present data in a variety of ways to help in answering questions.		Identifying and classifying	Ech			
Record findings using simple scientific language, drawings, labelled		Fair testing			(1)	2
diagrams, keys, bar charts, and tables.		Observing over time			-	
Report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions.		Pattern seeking				Absorbed
		Integrina e flap of skin and cartilage collects sound waves the automatic sound waves the integrina e flap of skin and cartilage collects sound waves the automatic sound	The Auditory Ossicles The auditory ossicles are small bones that carry the vibrations from the eardrum to the cochlea. They amplify the vibrations. The three bones are called the hammer, the anvil, and the stirrup. They are some of the smallest bones in the human body			sound waves ange Park nary School