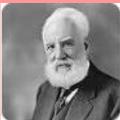
Science		Sound	Year 4
Key Vocabulary		Key Knowledge	
WORD	DEFINITION	 Sound is a type of energy. Sounds are created by vibrations. The louder the sound, the bigger the vibration. The sound waves travel to the ear and make the eardrums vibrate. Messages are sent to the brain which recognises the vibrations as sounds. 	
Amplitude	a measure of the strength of a soundwave		
Decibels	The unit to measure loudness		
Energy	The power to make something work, move or grow.		
Instruments	Objects used to play music.		
Materials	Anything used in making something or building.		
Medium	A substance such as air, water or a solid	 Pitch is a measure of how high or lo sound is. A whistle being blown cre 	FIICH
Particles	Tiny pieces that make up something larger	a high-pitched sound. A rumble of thunder is an example of a low-pitc	hed
Pitch	How high or low a sound is.	sound.	Low Frequency - Low Pitch - Low Sound High Frequency - High Pitch - High Sound
Reflect	Bounces back from a surface	• You can change the pitch of a sound in different ways depending on the type of instrument you are playing. For example, if you are playing a xylophone, striking the smaller bars with the beater causes faster vibrations and so a higher pitched note. Striking the larger bars causes slower vibrations and produces a lower note.	
Sound source	The object that started the sound.		
Source	The start of something		
Vibration	Particles moving very quickly.	 Inside your ear, the vibrations hit the eardrum and are then passed to the 	• • • • • • • • • • • • • • • • • • • •
Volume	How loud or quiet a sound is.	middle and then the inner ear. They are then changed into electrical sign and sent to your brain. Your brain t	nals // // // // //
	Key Scientist –	you that you are hearing a sound.	



Alexander Graham Bell is a Scottish born scientist (1847) who invented the telephone in 1876 at the age of 29. He formed the Bell Telephone Company in 1887.

- Sound can travel through solids, liquids and gases. Sound travels as a wave, vibrating the particles in the medium it is travelling in. Sound cannot travel through a vacuum.
- The size of the vibration is called the amplitude. Louder sounds have a larger amplitude, and quieter sounds have a smaller amplitude

