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 sound wave.			
Decibels	The units used to measure volume.			
Energy	The power to make something work, move or grow.			
Particles	Tiny pieces that make up something larger.	Pitch is a measure of how high or low a sound is. A whistle being blown creates		
Pitch	How high or low a sound is.	a high-pitched sound. A rui thunder is an example of a	mble of	
Reflects	Bounces back from a surface.	Sound. Low Frequency - Low Pitch - Low Sound High Frequency - High Pitch - High Sound		
Sound source	The start of the sound.	 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 wave	A vibration that travels through a solid, liquid or gas.			
Vibration	A collection of particles moving very quickly.	 Inside your ear, the vibration eardrum and are then pass middle and then the inner 	sed to the	
Volume	How loud or quiet a sound is.	are then changed into electrical signals and sent to your brain. Your brain tells		
	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	 Sound can travel through solids, liquids and gases. Sound travels as a wave, 		
age of 29. He formed the Bell Telephone Company in 1887. vibrating the particles through a vacuum. • The size of the vibr		vibrating the particles in th	n the medium it is travelling in. Sound cannot travel	
		tnrougn a vacuum.	AMPLITUDE	
		The size of the vibration	n is called the	
		amplitude. Louder sounds amplitude, and quieter s smaller amplitude		