Year 4: Sound

Subject	Specific Vocabulary	The ear	Important knowledge
vibrating	When something moves continuously to and fro. A sound vibrates as it travels through the air.	Outer Ear	 I know that sounds are made when materials vibrate I know that the length of time a material vibrates for depends on that material's
pitch	The quality of a sound which depends on the speed of the vibrations. A high sound has a high pitch and a low sound has a low pitch.	Eardrum	physical properties I know that sound travels by vibrations being passed on from particle to particle I know why solids are better at passing
volume	A measure of how loud or quiet something sounds and is related to the strength of the vibrations.	Ear Canal Middle Ear Eustachian Tube	these vibrations from particle to particle I know that pitch is the 'squeakiness' of a sound I know that loudness and pitch are not the
insulation	Protecting something by surrounding it with material that reduces or prevents the transmission of sound.	Sound waves & vibrations	same thing I know that volume describes the loudness of a sound I know that louder sounds will travel further than quieter sounds I know why sounds get fainter with distance I can record data relating to sound in a
outer, middle and inner ear	The ear is made up of three different sections. These parts all work together so that you can hear and process different sounds.		table I can describe the patterns between the length of a material and the sound it
cochlea	It looks like a spiral-shaped snail shell deep in your ear which plays an important role in helping you to hear.	Low Frequency	makes when it vibrates I can collect and record data relating to how sound travels through solids, liquids and gases using tables, diagrams and
sound waves	Sound waves are vibrating forms of energy that look like waves and travel through solids, liquids and gases.	G aire	 annotations I can compare how sound travels through different media and explain why there are differences
frequency	Frequency is how many waves there are per second. The higher the frequency, the more vibrations there are and the higher the pitch.		 I can make observations and collect data related to pitch I can explain the relationship between
ossicles	The ear is made up of little bones called ossicles that help you to hear.		pitch and frequency I can record my findings in a way that I choose and set up a fair test
hammer, anvil, stirrup	One of the ossicles is the hammer; another of these bones is the anvil and the third is the stirrup.		I can use the internet to find out about the loudness of different sounds