Science Sound	Year 4
Key Vocabulary sound source vibrate vibration travel pitch (high/low) volume faint loud insulation	
A sound produces vibrations which travel through a medium from the source to our ears.	Different mediums such as solids, liquids and gases can carry sound, but sound cannot travel through a vacuum (an area empty of matter).
The vibrations cause parts of our body inside our ears to vibrate, allowing us to hear (sense) the sound.	strength (size) of vibrations which decreases as they travel through the medium.
Sounds decrease in volume as you move away from the source.	A sound insulator is a material which blocks sound effectively.
Pitch is the highness or lowness of a sound and is affected by features of objects producing the sounds. For example, smaller objects usually produce higher pitched sounds.	
Outer Ear Middle Ear Inner Ear Pinna Ear Canal Auditory Nerve	Robert Boyle 1627 – 1691 Sound must travel through matter because it needs the vibration of molecules to be heard.
Cochlea twi Ear Drum Hammer Anvil	Marin Mersenne 1588 – 1648 The first scientist to record the speed of sound – identifying that sound travels at different speeds through different matter.