Year 4—Science Turton and Edgworth CEMPS

Knowledge Organiser— Sound

Key Vocabu	lary	Key Knowledge
Ear Particles	An organ used for hearing Solids, liquids and gases are made of particles.	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.
	They are so small we are unable to see them.	Sound is a type of energy. Sounds are created by vibrations. The louder the sound, the bigger the vibration.
Distance	A measurement of length between two points.	If you throw a stone in a pond, it will produce ripples. As the ripples spread out across the pond, they become smaller. When sound vibrations spread out over a distance, the sound becomes quieter, just like ripples in a pond.
Soundproof	To prevent sound from passing through.	
Absorb sound	To take in sound energy. Absorbent materials have the effect of muffling sound.	
Vacuum	A space where there is nothing. There are no particles in a vacuum.	The size of the vibration is called the a mplitude. Louder sounds have a larger amplitude, and quieter sounds have a smaller amplitude. quiet
Eardrum	A part of the ear which is a thin, tough layer of tissue stretched out like a drum skin. It separates the outer ear from the middle and inner ear. Sound waves make the eardrum vibrate.	
Vibration	A quick movement back and forth.	When you hit the drum, the drum skin vibrates. This makes the air particles closest to the drum start to vibrate as well.
Sound wave	Vibrations travelling from a sound source.	
Volume	The loudness of a sound.	
Amplitude	The size of a vibration.	
	A larger amplitude = a louder sound.	
Pitch	How low or high a sound is.	