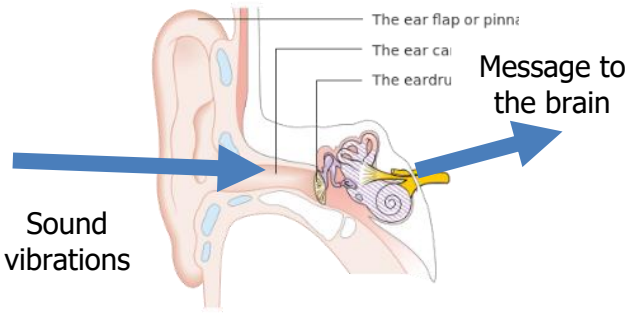

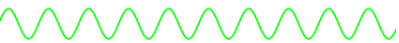
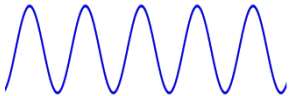
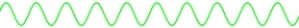


Science – Knowledge Organiser Year 4 Spring 2		
Vocabulary		
sound	type of energy made by vibrations	<p><b><u>How are sounds made?</u></b></p> <p>Sounds are made when objects vibrate. The vibrations create sound waves.</p> <p>Sounds travel through different mediums. They travel better through solids than liquids. They travel through liquids better than air.</p> <p>In a vacuum, there is no matter (solid, liquid or gas) so sounds cannot be heard.</p> <p><b><u>How do we hear a sound?</u></b></p>  <p>The ear catches the sound vibrations. They hit the eardrum making it vibrate. This sends a message to the brain.</p>
vibrate	move quickly to and fro	
vibration	the action of something vibrating	
source	starting point (of a sound, for instance)	
medium	any matter (solid, liquid or gas) that allows sound waves to pass through	
vacuum	a space with no matter (solid, liquid or gas)	
muffle	to quieten a sound (for instance, by wrapping it in something)	
soundwave	the shape of the movement of sound through a medium	
volume	measure of loudness	
pitch	how high or low a sound is	
sound insulator	a material that reduces the amount of sound passing through it	
		<p><b><u>Pitch</u></b></p>  <p>Low pitch</p> <p>Low pitch sounds are made from slower vibrations.</p>  <p>High pitch</p> <p>High pitch sounds are made from faster vibrations.</p> <p><b><u>Volume</u></b></p> <p>Sound can be loud or quiet depending on how much energy is used to make it. Hitting a drum hard uses more energy so will make a loud sound.</p> <p>Loud </p> <p>Quiet </p> <p>The closer you are to the source of a sound, the louder it will be.</p>