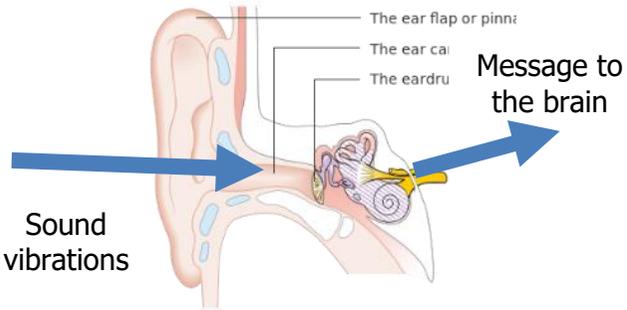
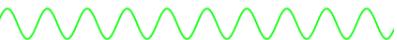
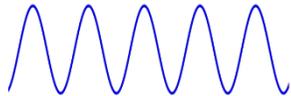


Science – Knowledge Organiser Year 4 Spring 2

Vocabulary		How are sounds made?	Pitch
sound	type of energy made by vibrations	<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. In a vacuum, there is no matter (solid, liquid or gas) so sounds cannot be heard.</p> <p>How do we hear a sound?</p>  <p>The ear 'catches' the sound vibrations. They hit the eardrum, making it vibrate. This sends a message to the brain.</p>	<p>Low pitch</p>  <p>Low pitch sounds are made from slower vibrations.</p>
vibrate	to move quickly to and fro		<p>High pitch</p>  <p>High pitch sounds are made from faster vibrations.</p>
vibration	the action of something vibrating		<p>Volume</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>
source	starting point (of a sound, for instance)		<p>Loud</p> 
medium	any matter (solid, liquid or gas) that allows sound waves to pass through		<p>Quiet</p>  <p>The closer you are to the source of a sound, the louder it will seem.</p>
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		