
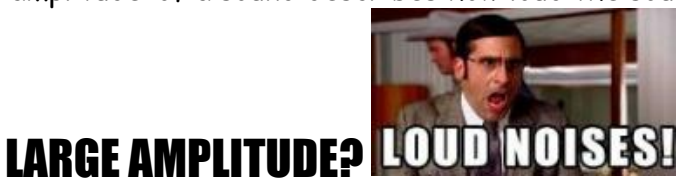
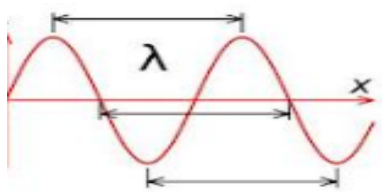


Use the circles to help you with your learning

😊 I know this well

😐 I know this a bit

☹ I don't know this yet

<p>I know that sound is produced when things vibrate.</p> 	<input type="radio"/>
<p>I know that sound can travel through solids, liquids and gases.</p>	<input type="radio"/>
<p>I know that sound vibrations are carried by a sound wave.</p>	<input type="radio"/>
<p>I "may" also know that sound travels best through a solid, then a liquid, then a gas, because the particles are closer together.</p>	<input type="radio"/>
<p>I can participate in; and describe an experiment to measure the speed of sound in air.</p>	<input type="radio"/>
<p>I know that the speed of sound in air is 340 metres per second (m/s)</p>	<input type="radio"/>
<p>I know that the 'pitch' of a sound describes how high or low the sound is.</p>	<input type="radio"/>
<p>I know that 'frequency' is another name for 'pitch.'</p>	<input type="radio"/>
<p>I know that frequency is measured in units called 'hertz' (Hz)</p>	<input type="radio"/>
<p>I know that the 'amplitude' of a sound describes how loud the sound is.</p> 	<input type="radio"/>
<p>I know that the 'wavelength' describes the distance from a point on one wave to the same point on the next wave</p> 	<input type="radio"/>

I know that

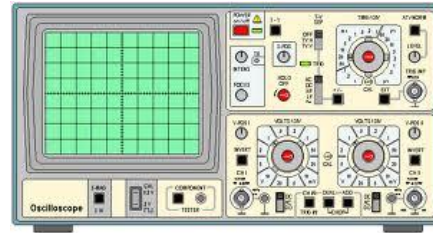
- The frequency of a wave (f)
- The wavelength of a wave (λ)
- The speed of a wave (v)

Are all related by the equation $v = f\lambda$

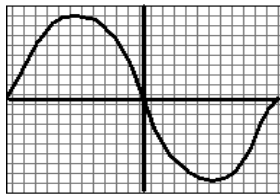
$$v = f\lambda$$



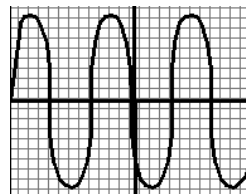
I know that I can use a device called an Oscilloscope to look at sound waves.



I know what changing the frequency of a wave will do to its appearance.



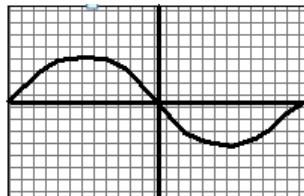
Low frequency sound



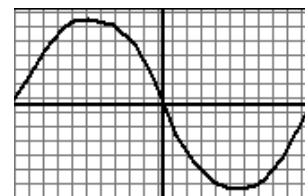
High frequency sound



I know what changing the amplitude of a wave will do to its appearance.



Quiet Note, low amplitude

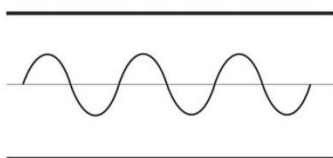


Loud note, high amplitude.

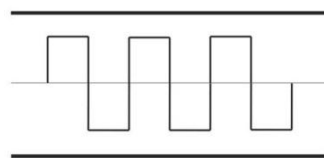


I "may" also be able to compare normal 'sine' waves with 'square' waves, and how their sounds differ from each other.

SINE WAVE



SQUARE WAVE



I "may" also be able to use computer software to record sound waves, edit them, and add effects like a sound engineer might.

