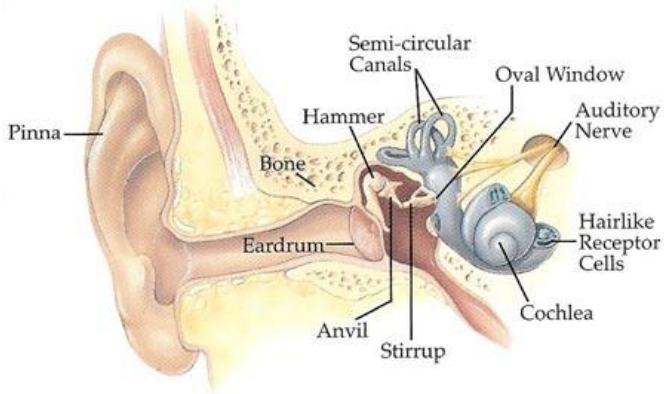
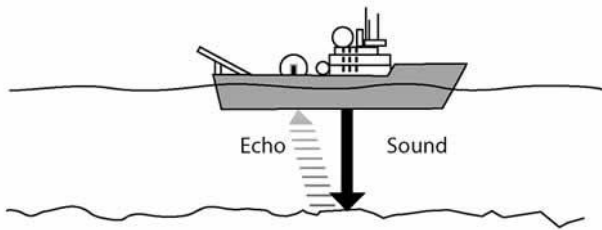


Sound Knowledge Organiser

The Ear



An Echo: used as echo location



Waves:

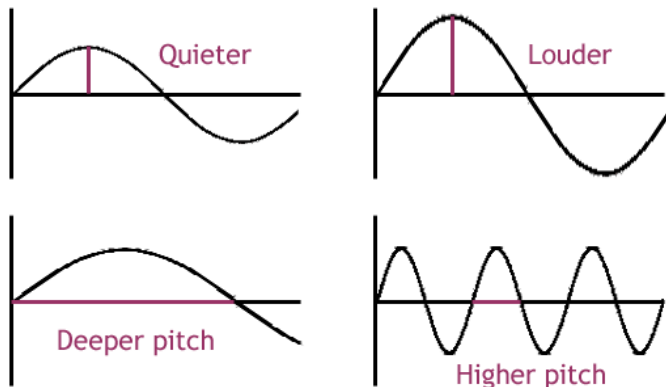
Amplitude = Loudness (in Decibels dB)

Pitch = how high or low the note of the sound is. High pitch = High frequency

Frequency = number of waves per second (in Hertz Hz)

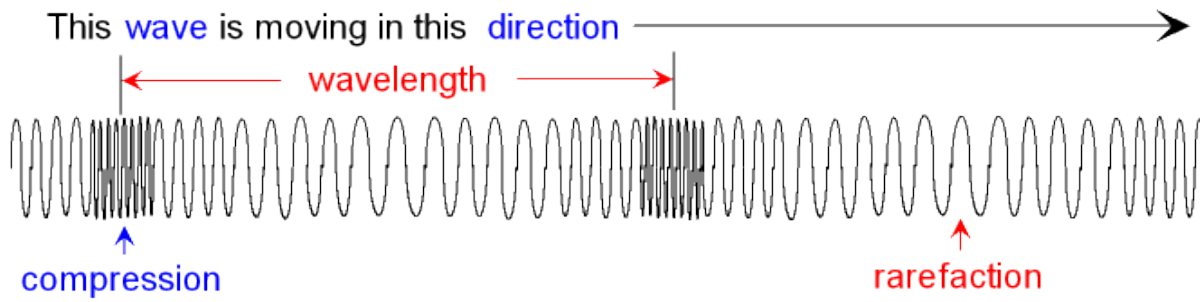
Wave speed (m/s) = Frequency X wavelength (m) or $v = f \cdot \lambda$

Frequency = $\frac{1}{\text{Time of 1 wave}}$

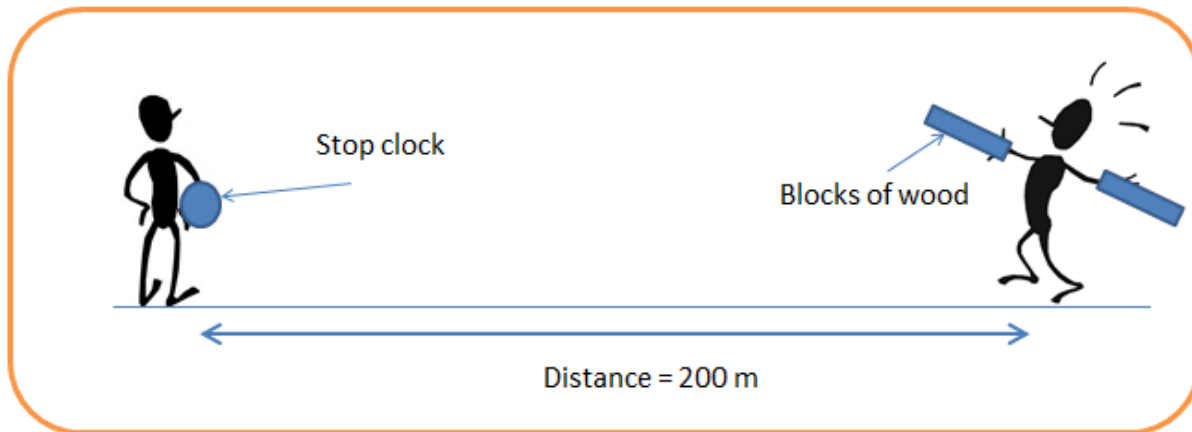


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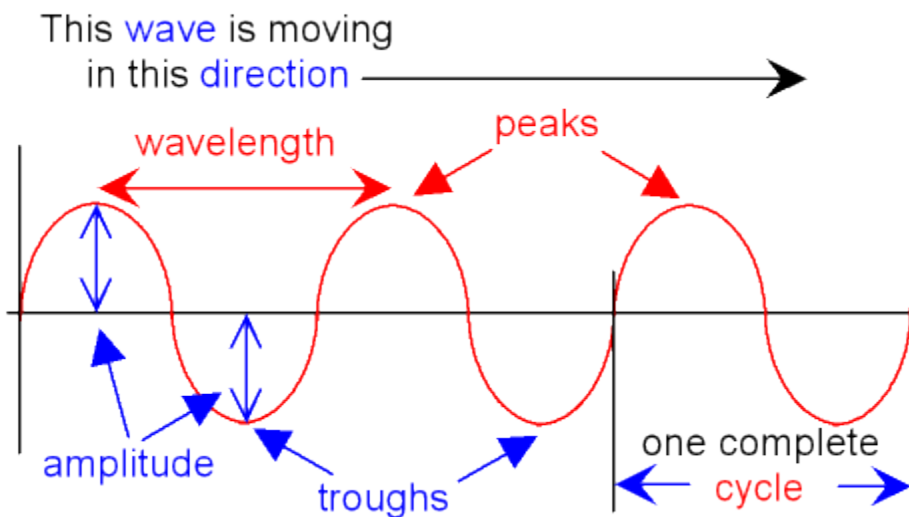
Sound is a Longitudinal wave: it needs particles.



Measuring the speed of sound: $\text{Speed (m/s)} = \frac{\text{distance (m)}}{\text{Time (s)}}$



Describing a wave. An oscilloscope is used to draw a wave.



References: <http://ahsprotect.com/the-ear/> http://www.oicinc.com/history_sonars.html <http://ffden-2.phys.uaf.edu>
<http://www.gcscience.com/> <https://sites.google.com/a/perthgrammar.co.uk/>