

Wave Notes

Wave – A disturbance that carries energy through matter or space

Medium – matter through which a wave travels

Mechanical Waves – Waves that require a medium

Electromagnetic or light waves – Waves that do not require medium

Types of Waves –

- longitudinal – particles vibrate parallel to the direction that the wave travels – back and forth.

Longitudinal Wave



Examples AC electricity, sound waves

- Transverse** – particles vibrate perpendicular to the direction that the wave travels – up and down motion.



Example Light

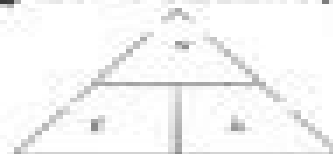
- Surface waves travel along the boundary between two mediums. Create circular motion.

Parts of a wave

- Amplitude** is the height of a wave from the resting position. As the energy of a wave increases, amplitude increases.
- Frequency** represents the number of waves that pass by a point every second. As the energy of a wave increases, frequency increases.
- Wavelength** is the distance from crest to crest. As the energy of a wave increases, wavelength decreases.

The Wave Equation

$$v = \lambda f$$



- v is the **speed** of the wave measured in m/s,
- f is the **frequency** of the wave measured in Hz
- λ is the **wavelength** of the wave measured in m.

Speed of Light – 3×10^8 m/s

Olavine Lundberg

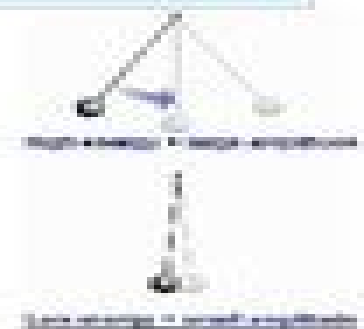
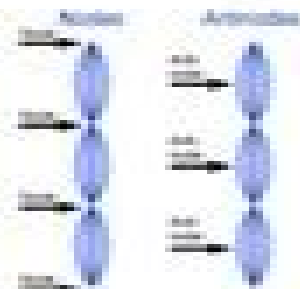
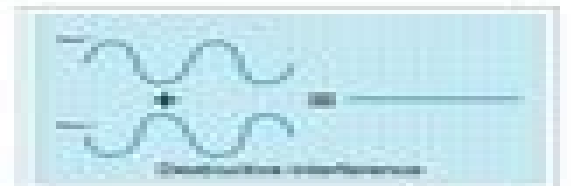
Constructive Interference – Waves combine so that the resulting wave is bigger than the original waves.

In-phase



Destructive Interference – Waves combine so that the resulting wave is smaller than the original waves.

out of phase



Amplitude increases as wavelength increases



Wave Study Guide

Shasha Hu



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