

Waves Summary Notes

Transverse waves

The higher the amplitude the greater the energy of the wave.

Freq. of waves produced per second
In time for 1 wave to pass a point



Transverse waves: The particles of the medium transmitting the wave travel at right angles to the direction of energy travel, e.g. EM waves

Longitudinal waves: The particles of the medium carrying the wave move parallel to the direction of energy travel, e.g. sound



Properties of waves: reflection, refraction, diffraction



Law of reflection: angle of incidence = angle of reflection where all angles are measured from the normal

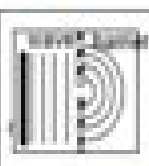
$$f\lambda = \frac{d}{t} \quad \frac{v}{\lambda} = \frac{d}{t} \quad v = \frac{d}{t}$$



$$f = \frac{1}{T} \quad \text{frequency} = \frac{\text{no of waves}}{\text{time to pass a point}} \quad \lambda = \frac{d}{N} \quad \text{wavelength} = \frac{\text{distance}}{\text{no of waves}}$$

Refraction: occurs when light enters a material which is more optically dense the wave speed and wavelength reduce but frequency remains the same. Usually this is accompanied by a change in direction of the wave.

When waves enter there is no change to the frequency



When waves diffract through a large gap only the edges of the wave change. Bend through a narrow gap, smaller than λ , the waves emerge as semi-circles.



Long wavelengths short wavelength
Long waves diffract more than short waves which is why long wave radio signals can be detected at the bottom of a hill, but shorter wavelength signals cannot be detected.

All members of EM spectrum are **transverse waves** and travel at $3 \times 10^8 \text{ m s}^{-1}$ in a straight line in air.
EM spectrum waves can be **radio waves, microwaves and light waves**

Light colours, **red, orange, yellow, green, blue, indigo, and violet**

red light long λ and low f / blue light short λ and high f

| Type of EM Waves | Application | Detector | Source |
|------------------|---|---|---|
| Radio & TV | communication under the sea, in space, radio and TV programming, films, listening to the news, | Aerial | transmitter, outer space, electronic circuits |
| microwaves | heating food through microwave ovens, communications | Aerial | electronic circuits, magnetron, transmitters, outer space |
| Infra Red | detector in security lighting, remote controls (e.g. TV) | Photodiode, thermopile, thermistor , heat sensitive paper, touch bulb, thermometer | warm objects, sun |
| Visible | human vision, photography, laser surgery, | Photodiode / photographic film / diode / CCD | Stars, candles, light bulbs, electronic devices (eg LEDs), sun |
| ultra violet | detecting forged bank notes, causing white shirts to look cleaner! sterilising medical instruments | human skin / causes fluorescence (glowing) in some objects/ fluorescent materials | Fluorescent tubes, very hot objects, sun, gas discharge, lamps |
| X-Ray | detecting broken bones, checking suitcases at the airport, | Photodiode / photographic film | X-ray machines, stars, very fast electrons hitting a metal target |
| Gamma Rays | medical tracers to detect cancer, killing bacteria, sterilising instruments, detecting broken pipes underground | / photographic film / Geiger Muller Tube and counter/ Photodiode | Radioactive nuclei, outer space (including neutron stars) |

Low Energy
Low frequency
Long wavelength



High Energy
High frequency
Short wavelength



<https://www.youtube.com/watch?v=8u00N000Yr4> Calculate the wavelength of a 88 MHz radio **point, stop, point** for given the speed as you should know all these waves travel at $3 \times 10^8 \text{ m s}^{-1}$

$$v = f\lambda \quad 3 \times 10^8 = 88 \times 10^6 \times \lambda \quad \lambda = 3.4 \text{ m}$$

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Judd E. Hollander



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