

Light

B/II

- Transverse wave - no medium required.

- Electromagnetic waves

↳ all travel at the speed of light.

300,000,000 m/s

$$3.0 \times 10^8 \text{ m/s} = c$$

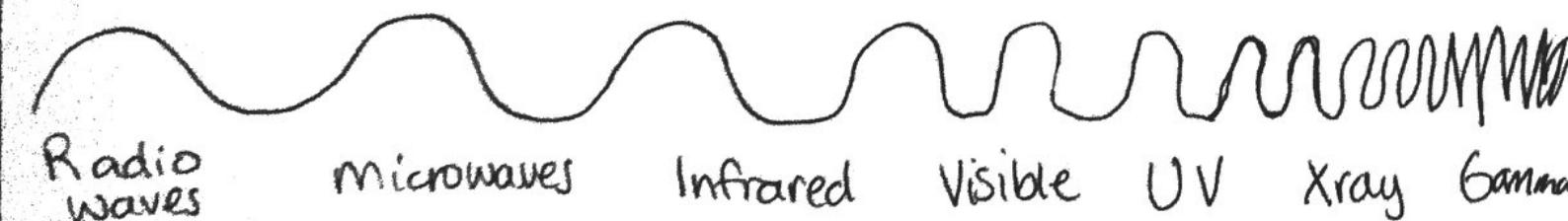
- Light acts like particles and waves

↓
photon

- Light emission

↳ electron going from higher state to lower state gives off energy as a photon.

Electromagnetic Spectrum



Radio waves

Microwaves

Infrared

Visible

UV

Xray

Gamma

- lowest energy

- lowest frequency

- longest wavelength

- Highest energy

- Highest frequency

- lowest wavelength