

X-rays are used in hospitals to take radiographs.



X-rays and gamma rays damage living tissue when they pass through it.

Large doses can kill cells, small doses can cause cancer

X-rays and gamma rays are absorbed by dense material such as bone and metal but pass through soft tissue

**Gamma rays**  
 \*Have the shortest wavelengths  
 \* used to kill bacteria in food, sterilise surgical equipment and kill cancer cells.



**Microwaves**  
 -Short waves  
 -Can pass through atmosphere for satellite communications  
 -Used in cooking, microwave ovens - heat water molecules



**Infrared-IR**  
 \*All objects emit IR. The hotter the object the more IR it emits  
 \*IR heat objects.  
 \*Uses: heaters, IR scanners, IR cameras, remote controls, optical fibres and communications



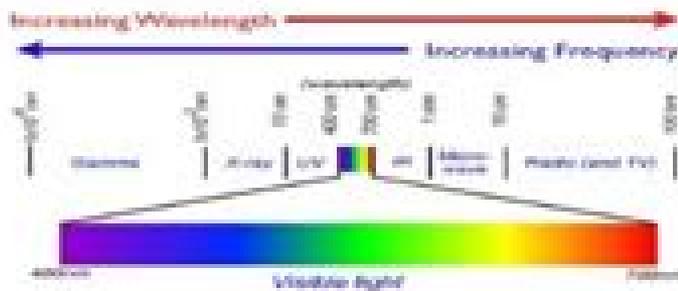
**Radio waves**

- Have the longest wavelengths
- \*Used in communications
- Radio waves - smallest long waves - 300,000Hz-
- Carry radio, TV, mobile phone signals
- Alternating voltage → aerial → receiver
- Frequency of radio wave = alternating voltage of carrier wave
- High frequency radio waves-
  - Carry more information
  - Have a shorter range
  - Less diffraction



**Optical Fibres**

- Visible light and IR carry signals
- \*Carry more info than wires
- \*More secure, signal stays in wire



Analogue signals vary continuously in amplitude or frequency  
 Digital signals are on or off. Digital signal free of interference and carry more information.  
 Carrier waves (radio, microwaves etc) carries digital/ analogue signal

Radio waves are reflected by the IONOSPHERE.

Stronger in summer

**P1b, Physics**



**Ultraviolet-UV**

Found naturally in sunlight. UV harms the skin and eyes, causes a sun tan, used in security markers



The use of radio waves depends on the frequency of the waves

**THE ELECTROMAGNETIC SPECTRUM**



All EM waves travel through space at speed of light (300 million m/s).

Wave speed: Frequency X Wavelength  
 (m/s) (Hz) (m)

# Gcse Science Physics Revision Guide

**LP Steffe**



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