



Revision

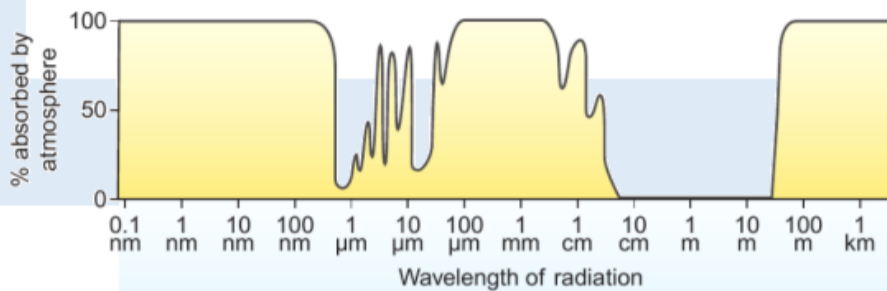
Retrieval, keyword definitions and equation practice.

SCAN ME



Final assessment

★ Review of learning



EM radiation dangers

How is the danger associated with Electromagnetic wave linked to its frequency?

- Apply:**
- SP6 Gamma radiation
 - SP7 Red shift / Doppler effect
 - SP10a AC/DC (Oscilloscopes)
 - 16+ Wavelength, amplitude, period and phase difference
 - Wave equation
 - Diffraction and polarisation
 - Amplitude and intensity
 - The transverse nature of EM waves
 - Refractive index and Snell's law
 - Coherence and path difference
 - Phase and phase difference

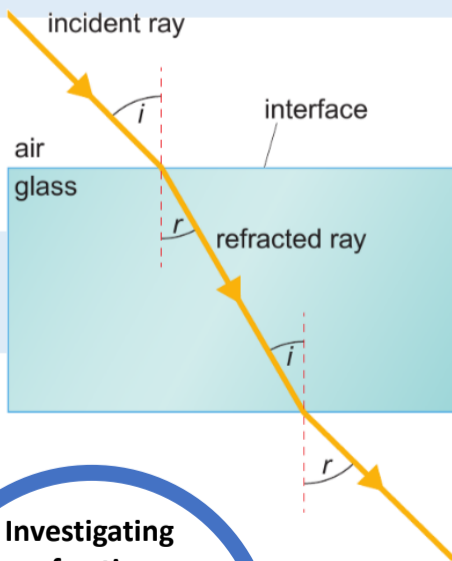
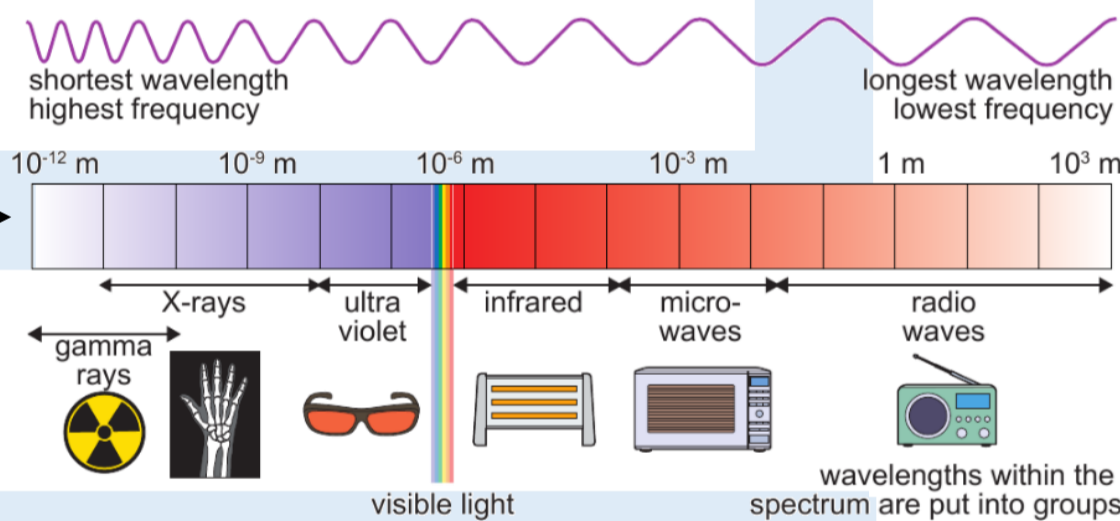
Using short wavelengths

What are some uses of Ultraviolet, X-rays and gamma rays?

oscillating electricity in a metal rod produce radio waves

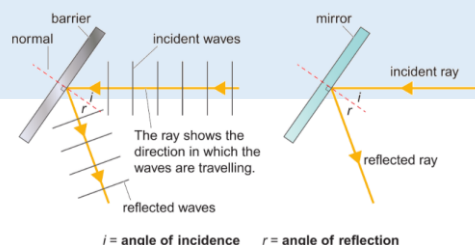
Using the long wavelengths

How do different substances affect radio waves, microwaves and infrared?



Investigating refraction

CORE PRACTICAL – Investigate refraction in rectangular glass blocks in terms of the interaction of EM waves with matter



The electromagnetic spectrum

What are some of the differences in behaviour of waves in different parts of the EM spectrum?

LESSON 1

Electromagnetic waves

What do all electromagnetic waves have in common?

- Retrieve:**
- KS2 reflection and shadows
 - P1.3 Light
 - P1.4.1 How we see objects
 - P1.4.4 The moon
 - P2.2.5 Thermal radiation
 - P2.3.1 Calculating Speed
 - SP1 Speed = distance / time

Make sure you can write definitions for these key terms.

Key terms

ray diagrams, incident ray, refracted ray, normal, interface, white light, visible spectrum, diffuse reflection, specular reflection, luminous, electromagnetic spectrum, frequency, wavelength, radio, microwaves, infrared, ultra-violet, x-ray, gamma