

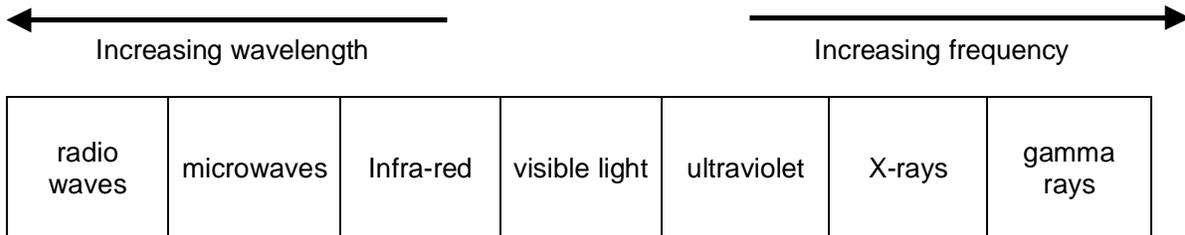


2025 Sec 4 Physics Notes Answers
Chapter 11 Electromagnetic Spectrum

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- (a) energy
- (b) transverse
- (c) vacuum
- (d) light
- (e) reflection, refraction
- (f) v – velocity; f – frequency; λ – wavelength

2.1



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- X-rays, gamma rays
- frequencies, wavelengths
- ionization
- destruction, modification

Exercise

1.

- (a) a beam of protons – **not EM waves**
- (b) a beam of electrons – **not EM waves**
- (c) a laser beam from a laser pointer – **visible light**
- (d) heat from a camp fire – **infra-red radiation**
- (e) information transmitted through an optical fibre – **visible light**
- (f) colour of a flame from a Bunsen burner – **visible light**
- (g) gamma rays from a radioactive material – **gamma rays**