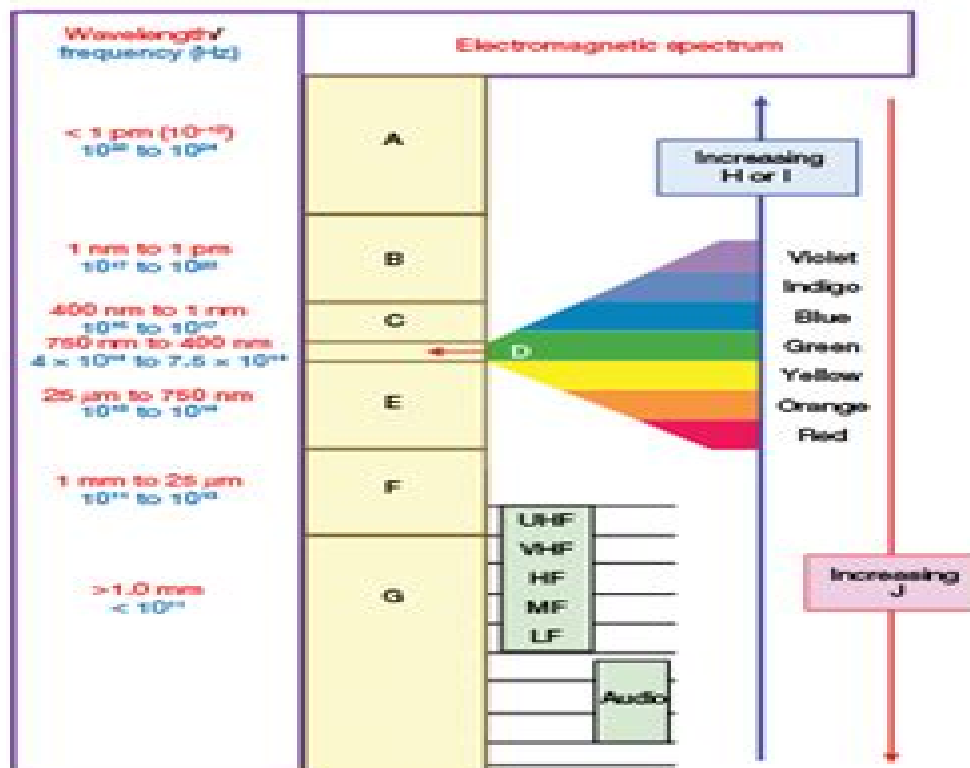


Sample Questions

Note: The wavelength and frequency data in this diagram is approximate only. It will vary slightly to that in other resources.

- Research information to identify the labels in the diagram.
- From this diagram of the electromagnetic spectrum:

- Which visible light photons would carry more energy, orange photons or blue photons? Justify your choice of answer.
- Is the energy carried by electromagnetic photons proportional to their wavelength, frequency or amplitude?
- An electromagnetic photon has a wavelength of 5.0 m. What type of ray is it?
- An electromagnetic photon has a wavelength of 5.0 cm. What type of ray is it?
- An electromagnetic photon has a wavelength of 5.0 mm. What type of ray is it?
- An electromagnetic photon has a wavelength of 5.0 μm . What type of ray is it?
- An electromagnetic photon has a wavelength of 5.0 nm. What type of ray is it?



- Which electromagnetic waves have the highest frequencies?
 - Which electromagnetic radiation has the shortest wavelength?
 - What is the same for all EMR in a vacuum?
 - What is the relationship between the wavelength (λ), and frequency (f), of an EMR?
 - Which electromagnetic radiation has the longest wavelength?
 - What rays do police use in speed detection devices?
 - Name three electromagnetic radiations which have a higher frequency than visible light.
 - How does visible EMR from the Sun differ from the non-visible EMR from the Sun?
 - State a property that is shared by infra-red waves and ultraviolet waves?
 - Which electromagnetic radiation has the lowest frequency?

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