

Electromagnetic Radiation (EMR): Continuous range of radiant energy

- by wavelength (λ)
- Frequency (ν)

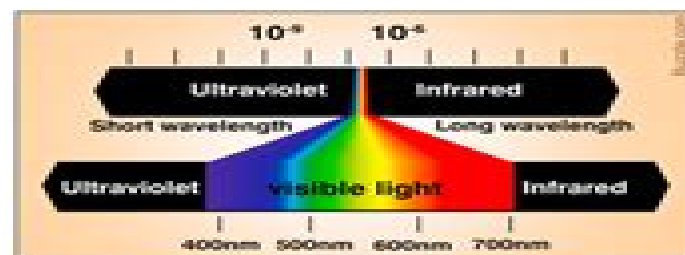


** If they ever ask for which color has a longer or shorter wavelength: Refer to the diagram
Long Wavelengths: red, orange
Short Wavelengths: Blue, Violet.



$$c = \lambda \nu$$

- λ is wavelength (in meters).
- ν is frequency (in hertz, or s^{-1}).
- c is the speed of light in vacuum.
- c is a constant; in a vacuum $c = 2.998 \times 10^8 \text{ m/s}$.



** See videos how to solve for frequency ***

- (1) Energy Level: an allowed state that an electron can occupy in an atom.
- (2) Ground State - Lowest energy level available to an electron in an atom ($N=1$)
- (3) Excited state - any energy state above the ground state
- (4) Electron transition - movement of an electron between energy level

Energy - Level Diagrams:

- Show electron transitions (Movement of electrons between energy levels)
- UP = Absorption of energy
- DOWN = Emission (release of energy)

Which would result in the emission of a photon with highest energy?

- 4 \rightarrow 1
- Because it goes from the highest energy to the lowest energy.

Which would result in the longest wavelength?

- 3 \rightarrow 2

** High energy is High frequency = short wavelengths **

** Low energy is low frequency = longer wavelengths**

Modern Chemistry Pg 311

A Gutmann



Modern Chemistry Pg 311:

Modern Chemistry Pg 311 Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Modern Chemistry Pg 311**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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