

Electromagnetic Radiation Quiz

$$3 \times 10^8 \text{ m/s} = (\lambda) \times (f)$$

$$E = (6.6 \times 10^{-34}) \times (f)$$

1. What kind of energy is released when an electron drops from the excited state back down to its ground state?
2. Which is the highest energy electromagnetic wave: microwave, radio, gamma, ultraviolet, infrared, or x-ray?
3. How fast does light travel?
4. If you have light with a wavelength of 1.87×10^{-15} m, how much energy does the wave possess?
5. If there is a wave of light travelling with a frequency of 2.00×10^{10} Hz, what is the wavelength of the wave?