



What we know so far

- Draw, label and define the parts of a wave.
- Be familiar with the parts of the electromagnetic spectrum and how they are organized. For example – Gamma waves have high energy, high frequency and IR has low energy, low frequency
- Understand the relationship between wavelength and frequency
- Use the speed of light equation to calculate wavelength or frequency.
- Understand the relationship between Energy and frequency
- Use the energy equation (Planck's constant) to calculate E or frequency
- Report the mathematical answers with correct units (Hz or m or J)
- Lab info – Understand the concept of electrons moving between the ground state and excited state. Evidence via spectral lines.
- Quantum numbers – know what they describe about electrons
- Electron configurations – be able to label the s,p,d,f block
- Be able to write configurations for elements through the d block

$$c = \lambda \nu$$
$$E = h \nu$$

