Unit 2 Test Topic List

Look over notes, worksheets, packets,etc!
Good study videos: https://www.youtube.com/watch?v=GiPQZaS9Xv0
https://www.youtube.com/watch?v=mFE-BW5hbVU
Look for others from Brightstorm and Tyler DeWitt

Chapter 4:

1. Early Atomic Theory (Dalton, Thomson, Rutherford)
2. Subatomic particles: relative size, charge and location
    a. Determining mass number
    b. Atomic number
    c. #p, #n, and #e
3. Isotopes
4. Atomic mass: calculating weighted average

Chapter 5:

1. Bohr model and quantum mechanical model;
    a. Energy levels (1-7)
    b. Sublevels (s, p , d, and f)
    c. Probability of location
2. Electron transition and energy; be able to use the three equations to determine energy, wavelength and frequency of electromagnetic radiation. Equations and constants will be provided.
3. Electron configuration: be able to write configuration in correct order through 4p.
4. Know how to fill orbital diagrams according to Aufbau, Pauli and Hund's rules.
5. Understand the difference between ground state and excited state electron configuration. Know that when electrons return to ground state, they release a photon of light at a specific energy and wavelength. This results in characteristic spectral lines with atomic emission spectra.