Study Guide for Exam 5 – The Atom and The Periodic Table

Required Materials:

Scantron (#882) #2 pencil Scientific calculator

Optional Materials: Any handwritten note sheets.

Vocabulary		
Atomic number	Quantum mechanical model	Isotopes
Mass number	Photons	
Atomic mass	Orbitals	
Calculations		

- 1. Nanometers to meters
- 2. Wavelength to frequency of light
- 3. Frequency to energy for a photon

Concepts

- 4. Electron configuration
- 5. Periodic table: groups, periods, metals, nonmetals, noble gasses, most reactive, most nonreactive
- 6. Ionic charge of an atom
- 7. Be able to find the number of proton, electrons, and neutrons
- 8. Isotopic notation
- 9. Transition levels of electron and corresponding energy values
- 10. Relationship between color and energy
- 11. Models of the atom

Be prepared to answer questions on the following experiments

12. Atomic Spectra