**Unit 6 Study Guide**

Chapter 10

* Thermodynamics
* Calorie/Joule
  + Convert between the two
* Internal Energy
  + ΔE=q + w
  + Know what a +/- with q or w would mean
* Specific Heat Capacity calculations
* Hess’s Law Calculations

Chapter 11

* Wavelength, frequency & photons
* Max Planck, Niels Bohr, De Broglie
* Orbital
* Principal energy levels
* Sublevels
  + S,p,d,f (# of electrons that fit into each level)
* Pauli’s Exclusion Principle
* Hund’s Rule
* Electron configuration
* Orbital diagrams
* Valence/Core electrons
* Trends on the periodic table
  + Ionization energy
  + Atomic size

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