**AP Chemistry**

**1st Nine Weeks:**

Unit 1: Atomic Structure and Periodicity (1.5 weeks)

* Energy in general, light energy in specific
* Energy calculations
* PES
* Electron configuration
* Isotopic data and mass spec
* Isoelectronic series, paramagnetism, and diamagnetism
* Periodic trends

Unit 2: Bonding and Geometry (2.5 weeks)

Unit 3: Energy and Phase Changes (2 weeks)

Unit 4: Stoichiometry and the Energy of a Chemical Reaction (3 weeks)

**2nd nine weeks:**

Unit 5: Gas Laws and KMT (3 weeks)

Unit 6: Introduction to Equilibrium (1 weeks)

Unit 7: Ksp and Stoichiometry (2 weeks)

Unit 8: Acid and Bases (3 weeks)

**3rd nine weeks:**

Unit 9: Buffer systems (5 weeks)

Unit 10: Thermodynamics (2 weeks)

**4th nine weeks:**

Unit 11: Kinetics (3 weeks)

Unit 12: Electrochemistry ( 2 weeks)

Unit 13: Review and practice tests (4 weeks)

**MAY 1st: EXAM**