Test 3 Review

Dr. Turner

Chapter 5 Topics

- Thermal energy, Temperature, and Heat
- Specific Heat
- Direct and Inverse Variation
- Calorimetry
- Internal Energy (U)
- Enthalpy (H)
- Using Hess's Law to calculate ΔH_{rxn}
- Using standard enthalpies of formation to calculate ΔH_{rxn}
- Measuring ΔH_{rxn} in a calorimeter
- Thermostoichiometry

Chapter 6 Topics

- Waves, Electromagnetic Waves, and Photons
- Bohr Model and energy level transitions
- Shells, Subshells, and Orbitals
- Quantum Numbers and Pauli Exclusion Principle
- Spdf Notation, Noble Gas Notation, and Orbital Box Notation
- Aufbau Principle and Hund's Rule
- Valence Electrons
- Atomic and Ionic Radii, Ionization Energy, and Electron Affinity
- Ionization Energy and Electron Affinity Trend Deviations
- Ion Formation, Ionic Bonding, and Ionic Lattice Formation