Chemical Equilibrium

- 7.1 Equilibrium Systems
 - o Chemical Equilibrium
 - o Dynamic Equilibrium
- Equilibrium position
- Reversible position
- Graphing for reversible reaction
- Conditions for equilibrium
 - o Closed system
 - Constant temperature
- 7.2 Laws of chemical equilibrium
- Equilibrium constant Kc or Keq
- Concentration quotient Qc
- Writing equilibrium expressions for homogenous and heterogeneous equilibria
- Calculation of equilibrium constant Kc
- Calculation of concentration from equilibrium constant
- 7.4 Le Chatlier's principle
- Le Chatlier's principle and changes in concentration
- Collision theory and concentration changes
- Application of LeChatlier's principle and concentration changes (Graphing included too)
- LeChatliers principle and changes in gas volume (pressure)
- Effect of catalyst on equilibrium position
- Addition of inert gas to state of equilibrium
- Concentration quotient and Equilibrium constant Qc and Kc
- 7.6 Solubility, solubility product Ksp
- Calculation of molar solubility
- Predicting precipitation
- Ion product Vs Solubility product (Qsp Vs Ksp similar to Qc and Kc)
- Predicting precipitation
- Common ion effect