Chapter 7-8 Test Topics

- 1. What is equilibrium, terms?
- 2. Phase, solubility, chemical equilibrium
- 3. Percent reaction and equilibrium
- 4. ICE tables
- 5. Equilibrium constants
- 6. Rules for writing equilibrium expressions
- 7. Magnitude of equilibrium constants
- 8. Le Chatelier principle
- 9. Haber Process
- 10.Calculations initial [] or equilibrium [] or Ke given
- 11. Predict direction Q values
- 12. Assumption rule, quadratic equation, perfect squares
- 13. Solubility
- 14. Molar solubility and Ksp
- 15. Predict precipitates Q values
- 16. Common ion effect
- 17. Bronsted-Lowry theory
- 18.Amphoteric
- 19. Trends of acids and bases
- 20. Water self ionizes, Kw
- 21. Strong acid and strong base calculations: pH, pOH, [H+], [OH-]
- 22.Ka and weak acids
- 23.Kb and weak bases
- $24.Kw = Ka \times Kb$
- 25. Percent Ionization and Ka and pH
- 26. Polyprotic acids
- 27.Salt Solutions
- 28. Titrations: Strong acid and strong base; Weak acid Strong Base; Strong Acid and Weak base
- 29. Buffers what makes a buffer
- 30. Adding strong acid or base to a buffer