Chem 12

Acids and Bases

Unit Test Outline (Chp 4)

1. Acid and Base identities - Arrhenius, Bronsted-Lowry
2. Amphiprotic substances
3. Strong/Weak acids and bases
4. Conjugate acid/base pairs
5. Acid and Base Ionization constant Ka and Kb
6. Writing acid and base equilibrium reaction equations with water
7. Quantifying strengths of strong/weak acids and bases
8. Leveling effect
9. Calculations involving ionization of water Kw = [H3O+] [OH-]
10. Calculations involving pH, pOH, and pKw
11. Calculations involving neutralization reactions between strong acids and bases
12. Kw = Ka x Kb
13. ICE tables when a **weak acid** dissociates in water
14. Titration calculations on finding the concentration of an unknown acid/base