

# Chapter 3 Chemical Reactions

## Concepts:

interpretation of equations

balancing equations

basics of chemical equilibrium

product favored vs reactant favored

identification of acid\*, base\*, salt

solubility rules

electrolytes: strong, weak, nonelectrolyte

equations: formula unit, total ionic, net ionic

spectator ions

kinds of reactions:

metathesis (double displacement)

precipitation / acid-base

redox (oxidation-reduction)

oxidation numbers

oxidizing agent vs reducing agent

\* definitions of acids + bases: Arrhenius  
Bronsted-Lowry

Calculation:

oxidation numbers