

# BASIC CONCEPTS OF CHEMISTRY

## Chapter 15

### Reaction Rates and Equilibrium

#### Objectives:

- \* Describe how a chemical reaction takes place on a molecular level by using an energy diagram
- \* List the factors that affect the rate of a chemical reaction
- \* Using LeChatelier's principle, predict what effect changing certain conditions will have on the equilibrium point
- \* Perform calculations involving the equilibrium constant and equilibrium concentrations
- \* Perform calculations involving equilibrium constants and pH for acid-base reactions
- \* Perform calculations involving solubility constants and molar solubility