## BASIC CONCEPTS OF CHEMISTRY

## Chapter 10

The Gaseous State

Objectives:

* List the general properties of gases based on the postulates of Kinetic Molecular Theory
* Calculate the effect changing pressure has on the volume of a gas (Boyle's Law)
* Using the gas laws, perform calculations involving relationships between volume, temperature, pressure, and the amount of gas
* Using the ideal gas law, calculate one condition of a gas given the other stated conditions
* Using Dalton's law, calculate the partial pressure of a gas
* Convert between volume, moles, and density of a gas measured at STP
* Using the molar volume at STP, perform stoichiometric calculations involving gas volumes

