

WORLD OF CHEMISTRY

Chapter 15

SOLUTIONS

Objectives:

- * To understand the process of dissolving
- * To learn why certain substances dissolve in water
- * To learn quantitative terms associated with the concentration of a solution
- * To understand the factors that affect the rate at which a solute dissolves
- * To understand the concentration term *mass percent* and learn how to calculate it
- * To understand molarity
- * To learn to use molarity to calculate the number of moles of solute present
- * To learn to calculate the concentration of a solution made by diluting a stock solution
- * To understand the strategy for solving stoichiometric problems for solution reactions
- * To learn how to do calculations involved in acid-base reactions
- * To learn about normality and equivalent weight
- * To learn how to use these concepts in stoichiometric calculations
- * To understand the effect of a solute on solution properties