BASIC CONCEPTS OF CHEMISTRY

Chapter 9

The Chemical Bond

Objectives:

- * Write the Lewis dot symbols of atoms and monatomic ions by following the octet rule
- * Using the Lewis dot structure and the octet rule, predict the charges on the ions of representative elements and the formulas of binary ionic compounds
- * Apply the octet rule to determine the number of bonds formed in simple compounds
- * Draw Lewis structures of a number of molecular compounds and polyatomic ions
- * Write multiple Lewis structures for molecules capable of resonance
- * Determine the validity of a Lewis structure based on formal charge considerations