

WORLD OF CHEMISTRY

Chapter 12

CHEMICAL BONDING

Objectives:

- * To learn about ionic and covalent bonds and explain how they are formed
- * To learn about the polar covalent bond
- * To understand the nature of bonds and their relationship to electronegativity
- * To understand bond polarity and how it is related to molecular polarity
- * To learn about stable electron configurations
- * To learn to predict the formulas of ionic compounds
- * To learn about ionic structures
- * To understand factors governing atomic size
- * To learn to write Lewis structures
- * To learn how to write Lewis structures for molecules with multiple bonds
- * To understand molecular structure and bond angles
- * To learn to predict molecular geometry from the number of electron pairs
- * To learn to apply the VSEPR model to molecules with double bonds