

BASIC CONCEPTS OF CHEMISTRY

Chapter 11

The Solid and Liquid States

Objectives:

- * Use kinetic molecular theory to distinguish the physical properties of solids and liquids from gases
- * Describe the types of intermolecular forces that can occur between two molecules and their relative strengths
- * Classify a solid as ionic, molecular, network, or metallic based on its physical properties
- * Describe the relationship between intermolecular forces and the physical properties of the liquid state
- * Given the appropriate heats of fusion and vaporization, calculate the energy required to melt and vaporize a given compound
- * Calculate the energy absorbed or released as a substance progresses along a heating curve