

8th Grade Study Guide

Chapter 16

Solids, Liquids, and Gases

KINETIC THEORY Section 1

- List the three assumptions of kinetic theory.
- Describe the relationship between thermal energy and particle motion.
- Define temperature.
- Identify the characteristics of a solid, liquid, gas, and plasma.
- Contrast heat of fusion, and heat of vaporization.
- Identify a substances heating curve. Identify each part.
- Describe thermal expansion in different kinds of matter.
- Share the strange behavior of water and amorphous solids.

PROPERTIES OF FLUIDS Section 2

- Define and identify real world examples of Archimedes' principle, Pascal's principle, Bernoulli's principle, and the Venturi effect.
- Calculate force using Pascal's principle.
- Define viscosity.

BEHAVIOR OF GASES Section 3

- Define and identify real world examples of Boyle's law, and Charles's.
- Calculate volume or pressure using Boyle's law.

