

## Chapter 2 – Solids, Liquids, and Gases

### Study Guide

Be able to **explain** your vocabulary words ( what, why and how)

Solid

Crystalline solid

Amorphous solid

Liquid

Fluid

Surface tension

Viscosity

Gas

Pressure

Melting

Melting point

Freezing

Vaporization

Evaporation

Boiling

Boiling point

Condensation

Sublimation

Charles's Law

Directly proportional

Boyle's Law

Inversely proportional

For each state of matter explain the particle movement, thermal energy involved and temperature

Solid

Liquid

Gas

For each state of matter explain the relationship between volume and shape

Solid

Liquid

Gas

For each change of state, explain the application of thermal energy, particle movement and how that is related to a change of state

Freezing

Melting

Vaporization

Condensation

Sublimation

Compare and contrast evaporation and boiling

Compare and contrast the two types of solids

What is viscosity? Cite examples of the two types of viscosity

Explain surface tension and how it works. Be able to cite examples.

What is pressure and how it is related to gas?

Explain the Gas Laws

Temperature vs. pressure

Temperature vs. volume

Volume vs. pressure

What happens to water molecules of an ice cube when it is removed from the freezer?

Why do water droplets form on the mirror after a shower?

Why is it important to know Charles's Law when dealing with parade balloons?

Know the widgets on pages 49, 54, 55 57, 58, 60