**Physical Science Study Guide**

**Chapter 2 – Matter**

* **Objectives**
	+ Explain the relationship between matter, atoms, and elements.
	+ Distinguish between elements and compounds.
	+ Interpret and write some common chemical formulas.
	+ Categorize materials as pure substances or mixtures.
	+ Use the kinetic theory to describe the properties and structures of the different states of matter.
	+ Describe the energy transfers involved in changes of state.
	+ Describe the laws of conservation of mass and conservation of energy, and explain how they apply to changes of state.
	+ Distinguish between chemical and physical properties of matter.
	+ Perform calculations involving density.
	+ Distinguish between chemical and physical changes in matter.
	+ Apply the laws of conservation of mass and conservation of energy to chemical and physical changes.
	+ Evaluate materials and their properties for different uses.
* **Vocabulary**
	+ Chemistry
	+ Matter
	+ Element
	+ Atom
	+ Compound
	+ Molecule
	+ Chemical formula
	+ Pure substance
	+ Mixture
	+ Miscible
	+ Immiscible
	+ Pressure
	+ Viscosity
	+ Energy
	+ Evaporation
	+ Condensation
	+ Sublimation
	+ Chemical property
	+ Reactivity
	+ Physical property
	+ Melting point
	+ Boiling point
	+ Density
	+ Buoyancy
	+ Chemical change
	+ Physical change
* **Formulas (Provided on test)**
	+ d=m/v