

## Chapter 1 Introduction to Matter

### Study Guide

Know your vocabulary- Be able to explain not just what it is , and how and why

Matter

Chemistry

Substance

Physical property

Chemical Property

Element

Atom

Chemical bond

Molecule

Compound

Chemical Formula

Mixture

Weight

Mass

International System of Units

Volume

Density

Physical Change

Chemical Change

Law of Conservation of Mass

Temperature

Thermal energy

Endothermic change

Exothermic change

Chemical energy

What are physical properties and name examples?

What are chemical properties and name examples?

What are chemical symbols? What are chemical formulas? List examples of each.

What is the difference between atom, element, molecule, substance, compound and mixture?

What are the 2 types of mixtures? What are the differences between the two and name some examples

How do you find the volume of a regular solid and an irregular solid?

What is density? How do you find the density of a substance? Why is density considered a physical property? (Know how to use a density chart)

What are some examples of physical changes?

What are some examples of chemical changes?

Explain the law of conservation of mass in terms of what happens before and after a chemical change. Give an example

Explain the difference between exothermic and endothermic change. Be able to identify them on a graph. (HINT- page 27)