

# Atoms, Elements and Matter Notes

Name \_\_\_\_\_

Class \_\_\_\_\_

Atoms -

Elements -

Examples of elements -

Physical Change -

Ex. of physical change -

Chemical Change -

Ex. of chemical change -

Mixtures -

Examples of mixtures -

Compounds -

Examples of compounds -

Molecule -

Ex. molecule with one element -

Ex. molecule of a compound -

Solubility -

Soluble substances:

Insoluble substances:

Solution -

Ex. of a solution -

Solute -

Solvent -

Ex. Red food coloring goes into water.

Solute -

Solvent -

Ex. Kool aid is made from sugar, flavoring and water.

Solutes -

Solvent -

Usually as a liquid solvent gets warmer:

Suspension -

Ex. of a suspension -

Colloid -

Ex. of a colloid -

**A beam of light will show in a colloid and suspension, but not a solution.**

Law of Conservation of Matter -

Ex. of Conservation of Matter (Physical change) -

Ex. of Conservation of Matter (Chemical change) -

## The Periodic Table

The Periodic Table -

How are the elements arranged on the Periodic Table? -

Properties of metals:

- 1.
- 2.
- 3.
- 4.

Properties of nonmetals:

- 1.
- 2.
- 3.

Metalloids -

## Families or groups of elements on the Periodic Table

What determines the family or group of elements on the Periodic Table? -

Where are families or groups found on the Periodic Table? -

Highly Reactive Metals Family or Group:

- 1.
- 2.
- 3.

Less Reactive Metals Family or Group:

- 1.
- 2.
- 3.

Nonreactive Gasses Family or Group:

- 1.
- 2.
- 3.
- 4.

## Acids and Bases

pH scale -

Acidic -

Ex. of an acid -

Basic -

Ex. of a base -

Neutral -

Ex. of a neutral substance -

Indicator -

What happens when an acid and base mix? -

