

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Period: \_\_\_\_\_

Reading Guide: 2.1 What is matter?

Chemistry is about:

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

Matter is anything that has \_\_\_\_\_ and takes up \_\_\_\_\_.

Light and \_\_\_\_\_ are two examples of things that are \_\_\_\_\_ matter. They are \_\_\_\_\_ matter because they have \_\_\_\_\_ mass and \_\_\_\_\_ volume.

An \_\_\_\_\_ is a substance that can \_\_\_\_\_ be broken down into simpler substances by \_\_\_\_\_ means. All the \_\_\_\_\_ in an element have the same atomic number.

A \_\_\_\_\_ is a substance made up of atoms from two or more elements that are \_\_\_\_\_ combined. Compounds \_\_\_\_\_ be broken down into simpler substances by \_\_\_\_\_ means.

A \_\_\_\_\_ is the smallest unit of a substance that behaves like the substance.

A \_\_\_\_\_ formula is a combination of chemical symbols and \_\_\_\_\_ used to represent a substance.

In a chemical formula, the number of each type of atom in a molecule is written in \_\_\_\_\_ after the symbol for the atom.

A \_\_\_\_\_ is the same throughout. The molecules in the substance have a fixed composition and definite properties. A substance made up of a single \_\_\_\_\_ or a single \_\_\_\_\_ is a pure substance.

A \_\_\_\_\_ is a combination of two or more substances that are \_\_\_\_\_ chemically combined.

A mixture can be \_\_\_\_\_ or heterogeneous.

\_\_\_\_\_ mixtures are NOT the same throughout. They are NOT mixed uniformly, and the substances that make them up are NOT evenly distributed.

\_\_\_\_\_ mixtures are the same throughout. The substances that make up a \_\_\_\_\_ mixture are uniformly mixed and evenly distributed.