

## The Nature of Matter ▪ Chapter 2 Pre-Assessment

Write the letter of the correct answer on the line at the left.

- \_\_\_\_\_ 1. An element is made up of
  - a. one kind of atom.
  - b. two kinds of atoms.
  - c. one kind of compound.
  - d. two kinds of compounds.
- \_\_\_\_\_ 2. Heat moves in a predictable flow
  - a. from light objects to heavy objects.
  - b. from heavy objects to light objects.
  - c. from warmer objects to cooler objects.
  - d. from cooler objects to warmer objects.
- \_\_\_\_\_ 3. Which unit can be used to express the density of a substance?
 

a. $\text{g/cm}^2$	b. $\text{cm}^3$
c. kg	d. $\text{kg/m}^3$
- \_\_\_\_\_ 4. The mass of an object can be measured using a
  - a. meter stick.
  - b. balance.
  - c. graduated cylinder.
  - d. thermometer.

## The Nature of Matter ▪ Section 2.1 Quiz

If the statement is true write true. If the statement is false, change the underlined word or words to make the statement true.

- \_\_\_\_\_ 1. States of matter include solids, gases, and heat.
- \_\_\_\_\_ 2. Compounds are the simplest substances.
- \_\_\_\_\_ 3. A physical property of oxygen is that it reacts with iron to form rust.
- \_\_\_\_\_ 4. An element can be broken down into other substances by physical or chemical means.
- \_\_\_\_\_ 5. Most of the materials you see everyday are pure substances.

## The Nature of Matter ▪ Section 2.2 Quiz

*Fill in the blank to complete each statement.*

1. Water evaporating is a physical change that involves a change in \_\_\_\_\_.
2. A substance that undergoes a \_\_\_\_\_ change is still the same substance after the change.
3. A chemical change occurs when a substance \_\_\_\_\_.
4. Combustion is an example of a \_\_\_\_\_ change.
5. The law of conservation of matter states that matter is not \_\_\_\_\_ or \_\_\_\_\_ in any chemical or physical change.

## The Nature of Matter ▪ Section 2.3 Quiz

*If the statement is true write true. If the statement is false, change the underlined word or words to make the statement true.*

- \_\_\_\_\_ 1. Every chemical or physical change in matter includes a change in mass.
- \_\_\_\_\_ 2. Electrolysis is a measure of the average energy of random motion of particles of matter.
- \_\_\_\_\_ 3. Melting ice is a(n) exothermic change.
- \_\_\_\_\_ 4. Chemical energy is the energy stored in the chemical bonds between atoms.
- \_\_\_\_\_ 5. In photosynthesis, plants convert electrical energy into chemical energy.