Name _____ Class _____ Date _____

4-1 What are three types of matter?

Lesson Review

Decide which type or types of matter—element, compound, or mixture—are being described. Write the correct terms in the spaces provided.

_____ **1.** A substance made up of one type of atom

_____ **2.** A chemical combination of two or more substances

_____ **3.** Each sample has the same properties as every other sample.

_____ **4.** Elements are chemically combined in a fixed ratio.

_____ **5.** A physical combination of two or more substances

_____ **6.** Kinds of matter are present in any amounts.

_____ **7.** Is classified as a substance

_____ **8.** Cannot be chemically broken down into a simpler substance

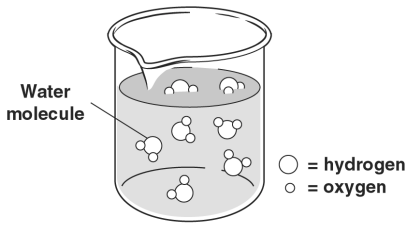
_____ **9.** Each sample does not necessarily have the same properties as every other sample.

Skill Challenge

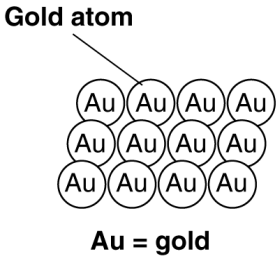
Skills: *classifying, applying*

Study the diagrams below. Circle the letter of the diagram that is described by each phrase. Some phrases may describe more than one diagram.

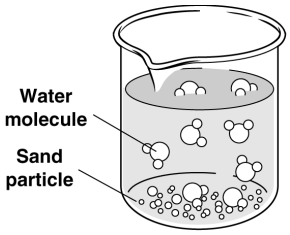
A



B



C



1.	an element	**A**	**B**	**C**
2.	a compound	**A**	**B**	**C**
3.	a mixture	**A**	**B**	**C**
4.	a substance	**A**	**B**	**C**

Name _____ Class _____ Date _____

4-2 What is a compound?

Lesson Review

Complete the following.

1. When hydrogen combines chemically with oxygen, hydrogen peroxide or _____ forms.
2. The smallest part of a substance that has all the properties of the substance is a _____ .
3. Water is an example of a _____ .
4. A substance made up of two or more elements that are chemically combined is a _____ .
5. Table salt is made up of the elements sodium and _____ .
6. Properties of a compound are _____ the properties of the elements that make them up.
7. Hydrogen and oxygen are _____ at room temperature.
8. Compounds form as a result of a _____ .
9. A molecule of silicon dioxide contains two _____ atoms and one silicon atom.
10. A common and tasty compound made up of the elements carbon, hydrogen, and oxygen is _____ .

Skill Challenge

Skills: *identifying, relating*

Complete the table below. Then, answer the questions that follow.

Name of Compound	Elements the Compound Contains
Water	**1.**
Sugar	**2.**
Table Salt	**3.**

4. What kind of change happens when the elements listed in the table combine to form compounds?

_____

5. A cup of sugar is slowly heated in a beaker. Which element will eventually remain in the beaker? Explain your answer. _____

_____