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**Introduction to Matter** • Guided Reading and Study

## **Describing Matter**

This section describes the kinds of properties used to describe matter. It also defines elements and contrasts compounds and mixtures.

## **Use Target Reading Skills**

Write a definition of each Key Term in your own words.
matter:
chemistry:
substance:
physical property:
chemical property:
element:
atom:
chemical bond:
molecule:
compound:
1
chemical formula:
mixture:
heterogeneous mixture:
homogeneous mixture:
σ
solution:

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Describing Matter	(continued)	
Properties of Matter		
1. The study of the prope		matter changes is called
2. Is the following sentence substances.	e true or false? Table sugar	r and table salt are pure
3. A(n) substance that can be o something else.	property is a cl bserved without changir	haracteristic of a pure ng the substance into
<b>4.</b> Complete the table by chemical property.	classifying each property	as either a physical or
	Properties of Matter	
Property	Physi	cal or Chemical?
Ability to burn	a.	
Color	b.	
Flexibility	c.	
Ability to tarnish	d.	
Ability to freeze	e.	
Ability to rust	f.	
Elements	,	
<b>5.</b> A pure substance that c by chemical or physica	annot be broken down in l means is a(n)	-
<b>6.</b> Is the following sentence elements are made is a		
7. When atoms combine, them together is a(n) _		at holds

8. How many atoms of hydrogen are in this water molecule?

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Co	Compounds					
9.	What is a compound?					
10.	What is the ratio of atoms in carbon dioxide, or CO <sub>2</sub> ?					
11.	What is the chemical formula of carbon monoxide?					
12.	2. Is the following sentence true or false? When elements chemically combine, they form compounds that have properties that are similar to those of the uncombined elements					
Miz	xtures					
13.	A(n) is made of two or more substances that are together in the same place but are not chemically combined.					
14.	What are two ways in which mixtures differ from compounds?					
	a					
	b					
15.	Circle the letter of each mixture below that is heterogeneous.					
	<ul><li>a. damp soil</li><li>b. sugar water</li></ul>					
	c. brass					
16	d. salad					
16.	Is the following sentence true or false? A solution is an example of a homogeneous mixture.					
17.	What are two ways in which mixtures differ from compounds?					

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