Name	Date	Class
The Nature of Matter	Reading/Notetaking Guide	
Describing Ma	itter (pp. 58–67)	
This section describes the k elements and contrasts con	inds of properties used to describe apounds and mixtures.	matter. It also defines
Use Target Reading	Skills	
Write a definition of each K	Cey Term in your own words.	
matter:		
chemistry:		
substance:		
physical property:		
chemical property:		
atom:		
chemical bond:		
molecule:		
compound:		
chemical formula:		
mixture:		
heterogeneous mixture:		
homogeneous mixture:_		
solution:		

Name	Date	Class

The Nature of Matter • Reading/Notetaking Guide

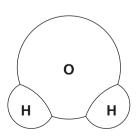
Properties of Matter (pp. 59-61)

- 1. The study of the properties of matter and how matter changes is called
- **2.** Is the following sentence true or false? Table sugar and table salt are pure substances. _____
- **3.** A(n) ______ property is a characteristic of a pure substance that can be observed without changing the substance into something else.
- **4.** Complete the table by classifying each property as either a physical or chemical property.

Properties of Matter		
Property	Physical or Chemical?	
Ability to burn	a.	
Color	b.	
Flexibility	c.	
Ability to tarnish	d.	
Ability to freeze	e.	
Ability to rust	f.	

Elements (pp. 62–63)

- **5.** A pure substance that cannot be broken down into any other substances by chemical or physical means is a(n) _______.
- **6.** Is the following sentence true or false? The basic particle from which all elements are made is a molecule. _____
- 7. When atoms combine, the force of attraction that holds them together is a(n) ______.
- 8. How many atoms of hydrogen are in this water molecule?



Desc Comp 9. W	ature of Matter • Facility Address of Matter (compounds (p. 64) That is a compound?	Reading/Notetaking Guide		
9. W	Dounds (p. 64)	(continued)		
9. W				
	hat is a compound?			
10. W				
	That is the ratio of atom	ms in carbon dioxide, or CO ₂ ?	,	
11. W	That is the chemical fo	ormula of carbon monoxide?		
CO	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			
Mixtu	ires (pp. 65–67)			
		is made of two or mo		
	Ž	which mixtures differ from cor	npounds?	
b.				
a. b. c.	ircle the letter of each damp soil sugar water brass salad	mixture below that is heterog	eneous.	
	•	ce true or false? A solution is a	n example of a	
17. Gi	ive three examples of	ways to separate the substance	es in a mixture.	