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Chapter 2 Properties of Matter

Section 2.3 Chemical Properties

(pages 54-58)

This section discusses chemical properties and describes clues that may show that a chemical change has taken place.

Reading Strategy (page 54)

Relating Text and Visuals As you read, complete the table by finding examples of the clues for recognizing chemical changes in Figures 19 and 20. For more information on this Reading Strategy, see the **Reading and Study Skills** in the **Skills and Reference Handbook** at the end of your textbook.

Recognizing Chemical Changes			
Clue	Example		
Change in color			
Production of gas			
Formation of precipitate			

Observing Chemical Properties (pages 54–55)

- **1.** Is the following sentence true or false? The substances in paraffin do not change when a candle burns. _____
- 2. Circle the letters of the compounds formed when a candle burns.
 - a. paraffin
 - b. hydrogen
 - c. water
 - d. carbon
- 3. What is a chemical property? _____
- **4.** Is the following sentence true or false? Flammability is a material's ability to burn in the presence of carbon dioxide. _____
- **5.** The property that describes how readily a substance combines chemically with other substances is ______.
- 6. Circle the letter of each property that is a chemical property.
 - a. hardness

- b. density
- c. flammability
- d. reactivity
- 7. Is the following sentence true or false? Nitrogen is a more reactive element than oxygen. _____

Name	Clas	SS	Date
Chapter 2 Pro	perties of Matter		
8. Why isn't iro	on used to make coins?		
	penefit of pumping nitrog		t is stored in
Recognizing	Chemical Change	PS (names 56–57)	
10. A(n)	change occ ne or more new substance	urs when a substance re	eacts
11. What are thre	ee examples of chemical c	hanges?	
a		b	
С			
	ters of examples of evider	nce for a chemical chang	e.
a. a change			
	apping particles		
-	iction of a gas		
	ation of a solid precipitate		
•	ple to evidence of a chemical	•	
Example	Chemica	l Change	
13. Lemon	L É	oduction of a gas	
14. A silve	D. tile for	mation of a precipitate	
darkei	ns when ed to air.	ge in color	
	ar is mixed oaking soda.		
Is a Change	Chemical or Physi	ical? (page 58)	
16. Is the following it turns red, t	ing sentence true or false? the color change shows th	When iron is heated ur	
17. When matter the matter	undergoes a chemical ch	ange, the composition o	of
	undergoes a physical cha	ange, the composition of	f
19. Complete the	e following table about ch	emical changes.	
	Chemical Changes		
Type of Change	Are New Substances Formed?	Example	
Chemical			

Chemical Changes				
Type of Change	Are New Substances Formed?	Example		
Chemical				
Physical				