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Chemical Reactions • Guided Reading and Study

Observing Chemical Change

This section describes how matter can change physically or chemically. It also describes how you can tell when a chemical change in matter has occurred.

Use Target Reading Skills

Before you read, preview the red headings. In the graphic organizer below, ask a what or how question for each heading. As you read, write the answers to your questions.

Properties and Changes of Matter

Question	Answer
What are physical properties of matter?	Physical properties are

Introduction

1.	What is matter?	

2.	The study	v of matter	and how	matter change	es is called	

Properties and Changes of Matter

3. Complete the following table about physical and chemical properties of matter.

Type of Property	How It Can Be Observed	Example	
a.	Without changing one substance into another	Color	
Chemical	b.	Ability to burn	

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D Ł	oserving Chemica	al Change (continued)	
4.		nce true or false? A physical cl ce of a substance	_
5.	Circle the letter of eac	h choice that is a physical cha	nge in matter.
	a. bending a straw	b. boiling wat	
	c. burning wood	d. braiding ha	
6.	A change in matter th	at produces one or more new	substances is a(n)
7.	What happens to the loccur?	oonds between atoms when cl	nemical changes
-vi	dence for Chemica	al Reactions	
		ls of changes that you can obs	erve when chemical
	reactions occur.		
-			
9.	2	in the color of a material, wh	y does this indicate
	that a chemical reaction	on might have occurred?	
_			
_			
_			
١٥.	A solid that forms dur	ring a chemical reaction is call	ed a(n)
11	Cuppaga yau miy taya	alaan liguida tagathan ta fanna	a norw substance and
LI.	1 1	clear liquids together to form appe of reaction might this indi	
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12.	Is the following sentence true or false? A change in energy occurs during a chemical reaction.
13. -	Why does a change in temperature indicate that a chemical reaction may have occurred?
- 14.	Is the following sentence true or false? Endothermic reactions always result in a decrease in temperature.

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15.	Complete the	table about	changes in	energy in	chemical	reactions.
10.	Complete the	table about	criaring co mi		CITCIIIIC	i cactions.

Type of Reaction	Energy Change	Example	
Endothermic	a.	Frying an egg	
b.	Energy is released	Burning wood	