Name	Date

Chemical Reactions



Grade 8 Science Content Standards—3.b: Students know that compounds are formed by combining two or more different elements and that compounds have properties different from their constituent elements. Also covers: 3.f, 5.a, 5.b, 5.c, 7.c

Before You Read

Before you read the chapter, think about what you know about the topic. List three things that you already know about the chemical reactions in the first column. Then list three things that you would like to learn about chemical reactions in the second column.

K What I know	W What I want to find out		

FOLDABLES
Study Organizer

Construct the Foldable as directed at the beginning of this chapter.

	T	

Chemical Reactions

Lesson 1 Chemical Properties and Changes



Grade 8 Science Content Standards—7.c: Students know substances can be classified by their properties, including their melting temperature, density, hardness, and thermal and electrical conductivity. Also covers: 5.a

	Scan the headings in Lesson 1 of your book. Identify three topics that will be discussed.
**	1
	2.
	3.
Review	Define physical property, using your book or a dictionary. Then use the term in a scientific sentence.
physical property	
Vocabular	Write a paragraph using all of the vocabulary terms.
chemical property	
chemical change dissolving	
uissoiving	

Academic Vocabulari	Use a dictionary to define compound.
compound	

Lesson 1 Chemical Properties and Changes (continued)

Main Idea

Ability to Change

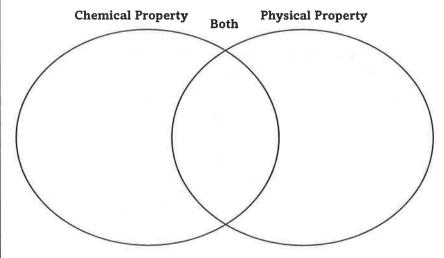
I found this information on page _____

Details

Compare and contrast chemical properties and physical properties by filling in the Venn diagram using the phrases listed.

- used to identify a substance
- observed without changing the color is an example
- identity of a substance
- · observed by changing the identity of a substance

· ability to burn is an example



I found this information on page _

Identify at least one chemical property for each substance.

Substance	Chemical Property
Iron	,
Paper	
Helium gas	
Hydrogen gas	
Copper	

٦	SUMMARIZE	[7]	Sur
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nmarize the main ideas of the above section.

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Lesson 1 Chemical Properties and Changes (continued)

∕Main Idea∕

Details

Ability to Change

I found this information on page _

Identify six examples of physical properties of matter.

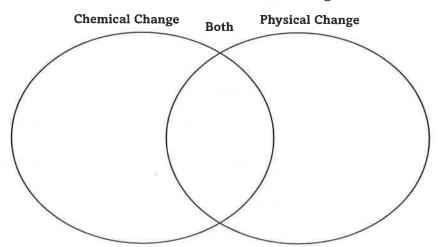
Examples of Physical Properties of Matter			
1.	4.		
2.	5.		
3.	6.		

Chemical and **Physical Changes**

I found this information on page _____

Compare and contrast chemical changes and physical changes by completing the Venn diagram, using the phrases listed.

- properties of substance change
- can often be reversed
- not easily reversed
- forms new substance
- identity of substance does not change
- · dissolving is an example
- · burning is an example
- · includes changes of state



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Summarize three main ideas of the above sections.