Lesson 4 Chemical Properties and Changes

Predict three facts that will be discussed in Lesson 4 after reading the headings. Record your predictions in your Science Journal.

Definition:

Chemical Properties

I found this on page _____

Comparing Properties

I found this on page _____

Chemical Changes

I found this on page __

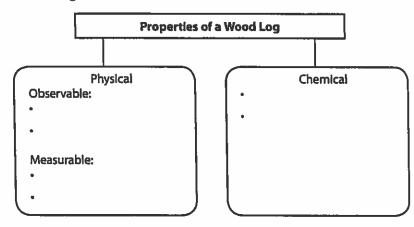
Signs of Chemical Change

I found this on page ___

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Define chemical property, and give two examples.

Contrast physical and chemical properties using the example of a wood log.



Characterize chemical change.

Substances that make up matter	change into	New substances with • new
		• new
		16

See Identify some signs of a chemical change.

Sign:		Sign:
Sign:	Chemical Change	Sign:

I found this on page ___ Atoms are _ . together and form particles of substances. As particles collide, bonds break and atoms separate Atoms. form. Describe the parts of a chemical equation, and then tell I found this on page _ why these equations are useful.

Products:

yield

Express how a balanced chemical equation illustrates conservation

Chemical equations are useful because _____

Reactants:

of mass.

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Describe what constitutes proof of a chemical change.

Order the events that occur in a chemical reaction.

Lesson 4 | Chemical Properties and Changes (continued)

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Explaining Chemical

Reactions

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Lesson 4 | Chemical Properties and Changes (continued)

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I found this on page	Assess the role of coefficients in chemical equations.		
	Coefficients	do not change	
The Rate of Chemical Reactions I found this on page	Explain how factors affect the rate of chemical reactions. Factor Effect on Reaction Speed		
	Temperature		
	Concentration	*1	
	Surface area		
Synthesize It D this week.	1	things you need to know about matter in order to listry. I changes that have happened in your home	
58 49 58 58			

Review Foundations of Chemistry

Chapter Wrap-Up

Now that you have read the chapter, think about what you have learned. Complete the final column in the chart on the first page of the chapter.

Jse	this checklist to help you study.
	Complete your Foldables® Chapter Project.
	Study your Science Notebook on this chapter.
	Study the definitions of vocabulary words.
	Reread the chapter, and review the charts, graphs, and illustrations.
	Review the Understanding Key Concepts at the end of each lesson.
	Look over the Chapter Review at the end of the chapter.
8 70	Summarize It Reread the chapter Big Idea and the lesson Key Concepts. Summarize why it is necessary to have these ways of classifying and describing
	matter and its changes.
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Challenge Find evidence of a chemical reaction that has occurred at your home. Do research to learn about the matter involved—the reactants and the products. Write a balanced chemical equation for the reaction, and explain the equation to your class.

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