Name	Date	Class
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Chapter 1 Introduction to Physical Science • Section 6 Summary

Science Laboratory Safety

Key Concepts

- Why is preparation important when carrying out scientific investigations in the lab and in the field?
- What should you do if an accident occurs?

Good preparation helps you stay safe when doing science activities in the laboratory. Preparing for a lab should begin the day before you will perform the lab. It is important to read through the procedure carefully and make sure you understand all the directions. Also, review the general safety guidelines in Appendix A of your textbook. The most important safety rule is simple: Always follow your teacher's instructions and the textbook directions exactly. Labs and activities in this textbook series include safety symbols. These symbols alert you to possible dangers in performing the lab and remind you to work carefully. The symbols are explained in Appendix A. When you have completed the lab, be sure to clean up the work area. Follow your teacher's instructions about proper disposal of wastes. Finally, be sure to wash your hands thoroughly after working in the laboratory.

Some investigations will be done in the "field." The field can be any outdoor area, such as a schoolyard, a forest, a park, or a beach. Just as in the laboratory, good preparation helps you stay safe when doing science activities in the field. There can be many potential safety hazards outdoors, including severe weather, traffic, wild animals, or poisonous plants. Advance planning may help you avoid some potential hazards. Whenever you do field work, always tell an adult where you will be. Never carry out a field investigation alone.

At some point, an accident may occur. When any accident occurs, no matter how minor, notify your teacher immediately. Then, listen to your teacher's directions and carry them out quickly. Make sure you know the location and proper use of all the emergency equipment in your lab room. Knowing safety and first aid procedures beforehand will prepare you to handle accidents properly.

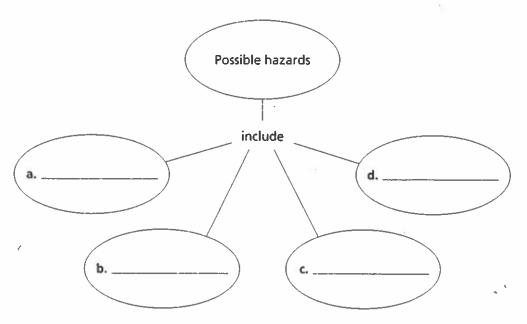
Name .		Date	,	_ Class	
Introduction to Physical S	Reading/Notetaking Guide				
Science Labora	tory S	afety (pp	. 43–47)		
This section explains why pr investigations. It also describ	eparation is	important whe	n carrying out	scientific rs.	¥
Use Target Reading S	kills			¥:	
As you read, make an outline the red headings for the main	e about scien ideas and tl	ce safety that y he blue heading	ou can use for s for supportin	review. Use ag ideas.	
	Safety in the	e Science Labora	tory		
I. Safety in the lab					
A. Preparing for the	lab				
В.					
C.	\nearrow				
II. Safety in the field					
Safaty in the Lab (an	44.46)		<u></u>		
Safety in the Lab (pp. 1. Is the following sentent		alse? No amou	ent of preparat	tion can help y	ou with
safety when doing scie	ence activiti	ies in the labo	ratory.		
2. Circle the letter of the		preparing for	a lab should	begin.	
a. 1 hour ahead of theb. 10 minutes ahead of					
c. the morning of the			*1		
d. 1 day before doing3. In preparing for a lab.		ant to review	tha ganaral ca	foto quidalina	
which can be found in	In preparing for a lab, it is important to review the general safety guidelines, which can be found in of your textbook.				
4. What should you do if	something	is unclear to	you about the	lab before yo	u begin?
5. What is the most impo	ortant safety	rule when p	erforming a la	ab?	
6. Is the following senten					

in the lab without asking your teacher first.

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Science Laboratory S	afety (continued)	
 7. Circle the letter of each se a. They identify safety each b. They alert you to poss c. They give you specified d. They remind you to w Match the symbol with its means	quipment that you should ible dangers in doing the cinstructions about each ork carefully.	d use. lab. lab in the book.
o [6]	osive Chemical ical Safety kage	
13. When you have complete work area.14. How should lab wastes be		your
		13
		wash your hands after working
Safety in the Field (p. 46	5)	
16. Circle the letter of each plin the field.a. schoolyardb. classroomc. forestd. park		gation might be done
•		ration helps you stay safe wher

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18. Complete the concept map below to show some hazards you might encounter when doing an investigation in the field.



- **19.** Circle the letter of each sentence that you should do whenever you do field work.
 - a. Work alone as much as possible.
 - b. Dress appropriately for any conditions you will encounter.
 - c. Tell an adult where you will be.
 - d. Ask an adult or classmate to accompany you.

In Case of an Accident (p. 47)

- 20. What should you do immediately whenever an accident occurs?
- 21. Circle the letter of what to do if you spill something on your skin while doing a lab.
 - a. Cover the skin with a clean dressing.
 - **b.** Wash your hands.
 - · c. Flush the skin with large amounts of water.
 - d. Do nothing unless the skin blisters.