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Introduction to Physical Science • Section Summary

Science Laboratory Safety

Key Concepts

- Why is preparation important when carrying out scientific investigations?
- What should you do if a lab 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.

The most important safety rule is simple: Always follow your teacher's instructions and the textbook directions exactly. Labs and activities in this textbook include safety symbols. These symbols alert you to possible dangers in performing the lab and remind you to work carefully. They also identify any safety equipment that you should use to protect yourself from potential hazards. The symbols are explained in Appendix A.

You should always keep your work area clean and organized. Also, do not rush through any of the steps. Always show respect and courtesy to your teacher and classmates.

When you have completed a lab, clean up your work area. Dispose of any waste materials according to your teacher's directions. Then wash your hands thoroughly.

At any time, an accident can occur in the lab. 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.

Science Laboratory Safety (pp. 17-20)

This section explains why preparation is important when carrying out scientific investigations. It also describes what you should do if an accident occurs.

Use Target Reading Skill

Before you read, preview Figure 10. Then write two questions that you have about the figure in the graphic organizer below. As you read, answer your questions.

Α.	
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vin the Lab (pp. 18–20) The following sentence true or false? No amount of preparation of proparation of propa	can y.
he following sentence true or false? No amount of preparation of you with safety when doing science activities in the laborator	y.
he following sentence true or false? No amount of preparation of pound with safety when doing science activities in the laborator——————————————————————————————————	y.
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Introduction to Physical Science	• Guided Read	ling and Study	
6. Is the following sentence true or in the lab without asking your t	false? You shou eacher first	ld never try anyt	hing on your own
7. Circle the letter of each sentence			ls.
a. They identify safety equipmb. They alert you to possible dc. They give you specific instructiond. They remind you to work can	angers in doing uctions about ea	the lab.	k.
Match the symbol with its meaning by	writing the correc	ct letter beside each	i symbol.
8.	Object	e.*	
b. Corros	sive Chemical		
9. k	al Safety	3	
10. d. Breaka	age .		
11. R. e. Dispos	sal		. *
	·		
12			
13. When you have completed a la work area.	b, you should	у	our
14. How should lab wastes be disp	posed of?	•	
15. Is the following sentence true of after working in the laboratory	or false? You sho even if you don	uld wash your ha 't think they're d	ands lirty.
In Case of an Accident (p. 20))	,	
16. What should you do immediat		n accident occurs	?
10. What should you do Indian			·
17. Circle the letter of what to do i doing a lab.	f you spill some	thing on your ski	n while
a. Cover the skin with a clear	ı dressing.		*
b. Put on plastic gloves.			
c. Flush the skin with large ad. Do nothing unless the skin			

Science Laboratory Safety

Understanding Main Ideas

Answer the following questions in the spaces provided.

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What is	the most importan	t safety rule when performi	
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	3.		
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vvilat 15	the purpose of the	safety symbols used in the	terrib court
	re four important t		
What ar	re four important t		
What ar	re four important t		
What ar	re four important t		
			end of every lab?