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What Is Science? • Guided Reading and Study

## Thinking Like a Scientist

This section describes the skills scientists use to learn about the world. The section also explains the attitudes that are important in science.

## **Use Target Reading Skills**

Before you read, preview the red headings in your text. For each heading, write a what, how, or why question in the left-hand column below. As you read, write answers to your questions in the right-hand column.

## **Scientific Skills**

	entific Skills
Question	Answer
What does observing involve?	Observing involves

	at Is Science? • Guided Re		
'h		ading and Study	
	inking Like a Scientist	(continued)	
nt	roduction		
1.	What are five skills scientists use to learn more about the world?		the world?
Ob	serving		
2. What is observing?			
_			
3.	The senses a scientist uses in observing include sight, hearing, touch, taste, and		
4.	In the spaces below, explain the	ne differences between c	quantitative and
	qualitative observations.		
	Ob	servations	
Qt	uanititative Observations	Qualitative Obser	vations
Inf	erring		
5.	What is inferring?		

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6.	Circle the letter of each item that is true about inferences.  a. Inferences are based on reasoning from what you already know.  b. Making an inference involves guessing.  c. An inference is an interpretation of observations.  d. People make inferences all the time.				
Pre	Predicting				
7.	Making a forecast of what will happen in the future based on past experience or evidence is called				
8.	ow are inferring and predicting related?				
Cla	ssifying				
9.	What is classifying?				
10.	Is the following sentence true or false? A drawback of classifying things is that objects and information stay disorganized.				
Ma	king Models				
	What does making models involve?				
12.	Circle the letter of each item that could be a model.  a. map  b. movie set c. computer-generated illustration d. notebook notes				
	u. Hotebook Hotes				

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Wh	/hat Is Science? • Gui	ded Reading and Study	
Th	hinking Like a Sci	entist (continued)	
13.		ce true or false? Models help	people study things that cannot _
14.		ce true or false? Some inform model.	ation about an object or process
Sci	cientific Attitudes		
15.	<b>5.</b> What is science?		
16.	<b>5.</b> What are five importan	nt attitudes that successful so	cientists possess?
			_
			_
17.	7. Circle the letter of the	— definition of skepticism.	
	<b>a.</b> having an attitude of	of doubt	
	<b>b.</b> being open-minded		
	<ul><li>c. coming up with inv</li><li>d. an eagerness to lear</li></ul>	entive ways to solve proble n more about a topic	ns
18.	O	ce true or false? Honesty is i	*