DATE: NAME: CLASS:

# GENERAL SCIENCE TOOLKIT

### **Making Observations and Inferences**

**Goal** • Increase your understanding of scientific observations and inferences.

#### Introduction

We make observations and inferences every day of our lives, as well as in science class. We make many observations when we watch television, listen to the radio, or surf the Internet. These observations often lead us to draw inferences. For example, a television commercial could result in the following observation and inference:

**Observation** As a particular car model travels, it lifts into the air and flies.

**Inference** If we buy that car, we will be able to make it fly.

#### What to Do

• Consider what you just learned about observations and inferences, and then answer the questions below.

#### Questions

1. Briefly describe two different commercials you have seen. For each commercial, state an observation and an inference that can be drawn from it. Say whether you think the inference is valid or accurate.

	Commercial #1	Commercial #2
Description		
Observation		
Inference		

BLM G-4

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BLM G-4 (continued)

	Commercial #1	Commercial #2
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• D.C. ((1)	m 1	
<b>2. a.</b> Define "observation	on" as it is used in science.	
h List thus a saisutifi	a ale competition of all out the magnetic very one site	*i i
	c observations about the room you are sit	
<b>3. a.</b> Define "inference"	'as it is used in science.	
	c inferences about the room you are sitting	
Inference #3:		
<b>4.</b> Identify whether each word in the space pro	h of the following statements is an observovided.	vation or an inference. Write the correct
Statement		<b>Observation or Inference?</b>
<b>a.</b> She is a smart girl	l.	
<b>b.</b> The car is red and	has a sunroof.	
c. She has strong arr	ns, so she must exercise.	
<b>d.</b> He burned the toa	st; therefore, he must be a bad cook.	
e. Her shoes are leat	ther; she must be rich.	
<b>f.</b> He ran the 100 m	dash in 24 s.	

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# Making Observations and Inferences

BLM G-4 (continued)

<b>5.</b> Wha	at general statements can you make about the nature of observations and inferences?
<b>6. a.</b> Co	ompare and contrast scientific observation and inference.
	hare your findings with a classmate and discuss any differences. Below, explain what additions changes you want to make to your answer in part a. after your discussion.