Class_

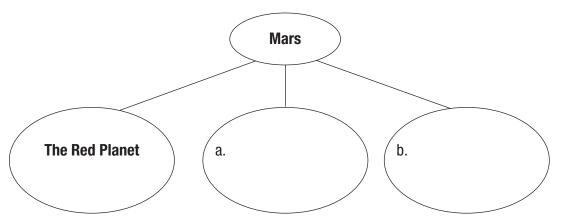
Chapter 23 Touring Our Solar System

Section 23.2 The Terrestrial Planets (pages 649–653)

This section describes the features of Mercury, Venus, and Mars.

Reading Strategy (page 649)

Using Prior Knowledge Before you read, add to the web diagram properties that you already know about Mars. Then add details about each property as you read. Make a similar web diagram for each of the other terrestrial planets. For more information on this Reading Strategy, see the **Reading and Study Skills** in the **Skills and Reference Handbook** at the end of your textbook.



Mercury: The Innermost Planet (pages 649-650)

- **1.** Circle the letter of Mercury's position in the solar system.
 - a. innermost terrestrial planet
 - b. innermost Jovian planet
 - c. outermost terrestrial planet
- **2.** Is the following sentence true or false? Like our moon, Mercury absorbs most of the sunlight that strikes it, has cratered highlands, and has vast

smooth areas similar to maria.

- 3. Mercury is a very ______ planet, because it contains a large iron core for its size.
- **4.** So Mercury has the greatest ______ extremes of any planet.

Venus: The Veiled Planet (pages 650-651)

- 5. Venus's size, _____, mass, and location in the solar system are similar to Earth's.
- 6. Venus's topography has been mapped from space and Earth, using

_____ pulses. Circle the correct answer.

radar light wave

Nar	ne		Clas	ss Date
Cha	apter 23	Touring	Our Solar System	
7.	Is the following sentence true or false? Most of Venus's surface consists			
8.	of plains covered by lava flows The surface of Venus was shaped by basaltic volcanism and			
activity.				
Mars: The Red Planet (pages 651–653)9. Is the following sentence true or false? Mars's atmosphere is 90 times				
10.	the density of Earth's Circle the letter of the gas that makes up most of the Martian atmosphere.			
	a. nitr	ogen	b. oxygen	c. carbon dioxide
11.	• Mars's polar caps are made of covered with a thin layer of frozen carbon dioxide.			
12.	Color changes on Mars's surface observed from Earth may be caused by			
	in Mars's atmosphere. Circle the correct answer.			
	cloud c	cover	dust storms	tornadoes
13.	3. Is the following sentence true or false? The largest volcano on Mars i			
	over $2\frac{1}{2}$ times higher than Mount Everest			
14.	• Select the appropriate letter in the figure that identifies each of the following Mars features.			
	V	alles Mar	rineris or canyon	
	V	olcanoes		
15.	there we that so	vas once v me areas	evidence that water on Mars is have drainage to those made by on Earth.	A
16.	Is the f	ollowing	sentence true or	in the second

16. Is the following sentence true or false? The finding of evidence of liquid water on Mars is important because water is essential for life.