Chapter 24 Studying the Sun

## **Section 24.2 Tools for Studying Space**

This section describes refracting, reflecting, radio, and space telescopes and how they work.

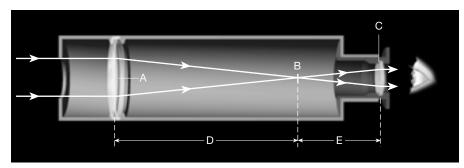
## **Reading Strategy**

As you read, complete the Venn diagram below to show the differences between refracting and reflecting telescopes. 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.

Refracting Telescopes		Reflecting Telescopes
a.	light-gathering, resolving, b. and magnifying power	

## **Refracting Telescopes**

- **1.** What is the function of the objective lens of a refracting telescope?
- **2.** Select the appropriate letter in the figure that identifies each of the following features.
  - \_\_\_\_ objective lens
  - \_\_\_\_ focus
  - \_\_\_\_ focal length of the objective
  - \_\_\_\_ eyepiece
  - \_\_\_\_\_ focal length of the eyepiece



**3.** Refracting telescopes got their name because they refract, or \_\_\_\_\_\_, light.

Name	Class	Date	
Chapter 24 Studyin	g the Sun		
	entence true or false? Astronome ng directly through a telescope.		
O	entence true or false? Refracting efect called chromatic aberration	1	
Reflecting Teles	scopes		
telescope is that a	nce between a reflecting telescope reflecting telescope uses a(n) to focus the incoming light.	e and a refracting	
	ng sentence true or false? Most la lectors	rge optical	
<b>8.</b> List three propert in their work	ies of optical telescopes that aid	astronomers	
	ible Radiation  f the type of invisible radiation from Earth's surface.	rom space that	
a. gamma rays	b. X-rays		
	tion d. radio waves		
	ng sentence true or false? A radio o a radio antenna		
	essary for radio telescope surface		
<b>12.</b> List five advantag	ges of radio telescopes over optic	ral telescopes.	
Space Telescop	es		
13. Why do space	e telescopes produce clearer imag	ges than telescopes on Earth?	
	f the first space telescope.		
a. Hubble Space	•		
b. Chandra X-ray	,		
c. Compton Gamma-Ray Observatory d. James Webb Space Telescope			
	entence true or false? Different s	pace telescopes	
O .	nformation about an object in spa		