

Chapter 19 Optics

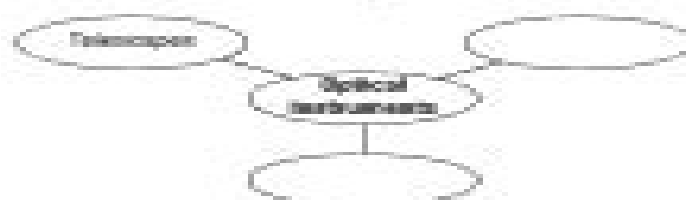
Section 19.3 Optical Instruments

(pages 550–555)

This section describes optical instruments, including telescopes, cameras, and microscopes. The basic principles of image formation by these instruments are explained.

Reading Strategy (page 550)

Using Prior Knowledge Add the names and descriptions of other optical instruments you know to the diagram. Revise the diagram after you read the section. 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.



Telescopes (pages 554–555)

- Circle the letter that best describes the amount of time it takes light from the most distant stars to reach Earth.
 - seconds
 - hours
 - millions of years
 - billions of years
- An instrument that uses lenses or mirrors to collect and focus light from distant objects is called a(n) _____.
- Complete the table about telescopes.

Telescopes		
Type	Parts that Collect and Focus Light	Description of How Image Is Formed
Reflecting telescope		
	Convex lenses	

19 3 Optical Instruments Answer Key

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