

CHAPTER 8 A VIEW OF THE CELL

Section 8.1 The Discovery of Cells

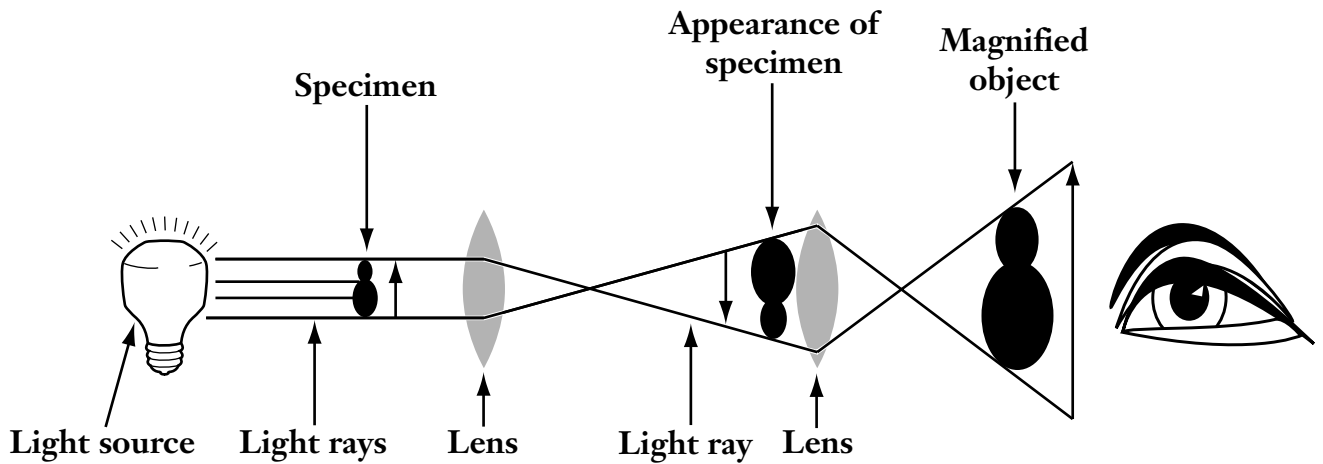
Section 8.2 Eukaryotic Cell Structure

Study the Reading

Read the paragraph in the box and study the figure. Then answer the questions.

The first microscope was made about 300 years ago. When light rays pass through certain shapes of glass, the rays bend and change direction. Pairs of convex lenses—round pieces of glass shaped like ovals—are used in microscopes. These lenses make very tiny objects such as cells appear larger. As light passes through the first lens, the light rays bend and then cross, as you can see in the diagram. By the time the crossed light rays reach the second lens, the object is magnified—it appears bigger. If you could see the object after the light passed through the first lens, the object would seem to be upside down. When the light reaches the second lens, it bends again so that you perceive the object as right side up.

Light Microscope



1. A microscope is made up of two or more glass lenses. What do the lenses do to the light that passes through them? What does this do to the object being looked at? _____

2. Why is it important to have the second lens in the microscope? _____
