

Name \_\_\_\_\_ Period \_\_\_\_\_

## Chapter 6: A Tour of the Cell

*Concept 6.1 To study cells, biologists use microscopes and the tools of biochemistry.*

1. The study of cells has been limited by their small size, and so they were not seen and described until 1665, when Robert Hooke first looked at dead cells from an oak tree. His contemporary, Anton van Leeuwenhoek, crafted lenses; and with the improvements in optical aids, a new world was opened. *Magnification and resolving power* limit what can be seen. Explain the difference.
2. The development of electron microscopes has further opened our window on the cell and its organelles. What is considered a major disadvantage of the electron microscopes?
3. Study the electron micrographs in your text. Describe the different types of images obtained from:  
**scanning electron microscopy (SEM)**  
**transmission electron microscopy (TEM)**
4. In *cell fractionation*, whole cells are broken up in a blender, and this slurry is centrifuged several times. Each time, smaller and smaller cell parts are isolated. This will isolate different organelles and allow study of their biochemical activities. Which organelles are the smallest ones isolated in this procedure?

*Concept 6.2 Eukaryotic cells have internal membranes that compartmentalize their functions.*

5. Which two domains consist of prokaryotic cells?
6. A major difference between prokaryotic and eukaryotic cells is the location of their DNA. Describe this difference.

# Holtzclaw Ap Biology Guide Answers Ch 52

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*Preparing for the Biology AP Exam* Neil A. Campbell, Jane B. Reece, Fred W. Holtzclaw, Theresa Knapp Holtzclaw, 2009-11-03 Fred and Theresa Holtzclaw bring over 40 years of AP Biology teaching experience to this student manual. Drawing on their rich experience as readers and faculty consultants to the College Board and their participation on the AP Test Development Committee the Holtzclaws have designed their resource to help your students prepare for the AP Exam. Completely revised to match the new 8th edition of Biology by Campbell and Reece. New Must Know sections in each chapter focus student attention on major concepts. Study tips, information, organization, ideas, and misconception warnings are interwoven throughout. New section reviewing the 12 required AP labs. Sample practice exams. The secret to success on the AP Biology exam is to understand what you must know and these experienced AP teachers will guide your students toward top scores.

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