

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.

Magnification: Ratio of actual size to visible size  
Resolving power: Clarity

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?

Cell dies in the process

3. Study the electron micrographs in your text. Describe the different types of images obtained from:  
**scanning electron microscopy (SEM)**

Detail of surface textures (What it looks like)

**transmission electron microscopy (TEM)**

Detail of components (What makes up it)

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?

**Ribosomes**

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

5. Which two domains consist of prokaryotic cells?

Archaea, Bacteria

6. A major difference between prokaryotic and eukaryotic cells is the location of their DNA. Describe this difference.

# Ap Biology Reading Guide Answers Chapter 6

**G Psacharopoulos**



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**Study Guide to Accompany Biology by Karen Arms and Pamela S. Camp** Russell C. Hollingsworth, 1979

*Student Study Guide for Biology [by] Campbell/Reece* Martha R. Taylor, 2002 Marty Taylor Cornell University Provides a concept map of each chapter chapter summaries a variety of interactive questions and chapter tests *Study Guide* George Karleskint, 1991 *Student Study Guide to Accompany Human Biology* Sylvia S. Mader, 2003-08 This best selling text emphasizes the relationship between humans and other living things Intended for an introductory course this text provides students with a firm grasp of how their bodies function and how the human population can become more fully integrated into the biosphere An Online Learning Center tied directly to the text via icons will direct students to activities or animations that gives a visual example of difficult processes as well as Working Together boxes to emphasize homeostasis **Resources in Education** ,1994-03 **Applied Mechanics Reviews** ,1995 *Partners in Innovation* Elaine Seymour, 2005 Seymour argues from evidence that effective deployment adequate professional education and collegial collaboration between faculty and their TAs are critical in ensuring the future quality of science education BOOK JACKET **Current Literature** ,1930

**Cell and Molecular Biology, Problems Book and Study Guide** Gerald Karp, 2001-09-25 Balances coverage of the concepts of cell and molecular biology using examples of experimentation to support those concepts As experimental techniques become more diverse and complex it is increasingly necessary to identify individual studies that have a broad impact on our understanding of cell biology This text describes in detail some of the key experimental findings along with the original data and figures *Film and Radio Discussion Guide* ,1953 *Williams Gynecology, Third Edition, Study Guide* Claudia L. Werner, Elysia Moschos, William F. Griffith, Victor E. Beshay, David D. Rahn, Debra L. Richardson, Barbara L. Hoffman, 2016-11-05 Gain a better understanding of the basic principles of gynecology presented in Williams Gynecology Third Edition with this full color study guide Directly derived from the content of Williams Gynecology Third Edition this authoritative study guide is designed to assess your understanding and retention of the acclaimed evidence based coverage of the parent text Here you will find everything you need for an efficient chapter by chapter review of the text material Featuring a full color open design the study guide contains more than 2 000 review questions with clinical vignettes an answer key that includes corresponding textbook page numbers to aid further study and hundreds of precise images to sharpen your visual diagnosis skills The most rigorous gynecology summary available NEW Color images included as question material NEW Clinical case questions assess your ability to apply the content to real world patient encounters More than 2 000 evidence based multiple choice questions cover every major topic in clinical gynecology includes a mix of straight Q A and clinical vignettes Answer key provides the correct answer and cites page numbers in Williams Gynecology Third Edition to prompt in depth discussion and continued study Coverage spans reproductive endocrinology and infertility female pelvic medicine reconstructive surgery and gynecologic oncology **Audio-visual Guide** ,1953 **Readers' Guide to**

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**Otto E. Miller, Plaintiff-Respondent, Against Fred W. Smythe, Defendant-Appellant ,**

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