

Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

## Chapter 10 Cell Growth and Division

### Section 10–1 Cell Growth (pages 241–243)



#### Key Concept

- What problems does growth cause for cells?

#### Limits to Cell Growth (pages 241–243)

- What are two reasons why cells divide rather than continue to grow indefinitely?
  - The larger a cell becomes, the more demands the cell places on its DNA.
  - The larger a cell becomes, the more trouble the cell has moving nutrients and wastes across the cell membrane.
- Is the following sentence true or false? As a cell increases in size, it usually makes extra copies of its DNA. false
- Circle the letter of what determines the rate at which food and oxygen in a cell are used up and waste products produced.
  - The cell's organelles
  - The cell's volume
  - The cell's location
  - The cell's DNA
- How can you obtain a cell's ratio of surface area to volume? Divide the surface area by the volume.
- If a cell's surface area is  $6 \text{ cm}^2$  and its volume is  $1 \text{ cm}^3$ , then what is its ratio of surface area to volume? 6 : 1 or 6 : 1
- Is the following sentence true or false? As a cell grows in size, its volume increases much more rapidly than its surface area. true
- Circle the letter of what happens to a cell's ratio of surface area to volume as the cell's volume increases more rapidly than its surface area.
  - The ratio decreases.
  - The ratio increases.
  - The ratio remains the same.
  - The ratio disappears.

#### Division of the Cell (page 243)

- What is cell division? Cell division is the process by which a cell divides into two new daughter cells.
- How does cell division solve the problem of increasing size? Cell division reduces cell volume.

# Chapter 10 Cell Growth And Division Section 10 1

## Answer Key

**Di Barton**



## **Chapter 10 Cell Growth And Division Section 10 1 Answer Key:**

**Biology** Kenneth Raymond Miller, Nancy Montgomery, Joseph S. Levine, 2008      *A Truly NCERT Biology* K.K. Mishra,

**Principles of Cell Biology** George Plopper, 2014-10-21 Written for undergraduate cell biology courses Principles of Cell Biology Second Edition provides students with the formula for understanding the fundamental concepts of cell biology This practical text focuses on the underlying principles that illustrate both how cells function as well as how we study them It identifies 10 specific principles of cell biology and devotes a separate chapter to illustrate each The result is a shift away from the traditional focus on technical details and towards a more integrative view of cellular activity that is flexible and can be tailored to suit students with a broad range of backgrounds      *Biology* Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004      **Calculations for Molecular Biology and Biotechnology** Frank H. Stephenson, 2010-07-30

*Calculations for Molecular Biology and Biotechnology A Guide to Mathematics in the Laboratory* Second Edition provides an introduction to the myriad of laboratory calculations used in molecular biology and biotechnology The book begins by discussing the use of scientific notation and metric prefixes which require the use of exponents and an understanding of significant digits It explains the mathematics involved in making solutions the characteristics of cell growth the multiplicity of infection and the quantification of nucleic acids It includes chapters that deal with the mathematics involved in the use of radioisotopes in nucleic acid research the synthesis of oligonucleotides the polymerase chain reaction PCR method and the development of recombinant DNA technology Protein quantification and the assessment of protein activity are also discussed along with the centrifugation method and applications of PCR in forensics and paternity testing Topics range from basic scientific notations to complex subjects like nucleic acid chemistry and recombinant DNA technology Each chapter includes a brief explanation of the concept and covers necessary definitions theory and rationale for each type of calculation Recent applications of the procedures and computations in clinical academic industrial and basic research laboratories are cited throughout the text New to this Edition Updated and increased coverage of real time PCR and the mathematics used to measure gene expression More sample problems in every chapter for readers to practice concepts      **Modules** McDougal

Littell Incorporated, 2005      *The British Journal of Photography* William Crookes, T.A. Malone, George Shadbolt, J. Traill Taylor, William Blanchard Bolton, Thomas Bedding, 1911      **Scientific American** , 1897      **Cells and Heredity** James Trefil, Rita Ann Calvo, Kenneth Cutler, 2004-01-09      *Te HS&T 2007 Shrt Crs M* Holt Rinehart & Winston, 2007

*McGraw-Hill Education 500 Review Questions for the MCAT: Biology* Robert Stanley Stewart, 2016-01-01 500 ways to pass the Biology section of the new MCAT Intensive practice detailed answer explanations the best way to sharpen skills and prepare for the exam In anticipation of the fully revised 2015 MCAT 500 Review Questions for the MCAT Biology has been updated to comprehensively cover the biology portion of the Biological and Biochemical Foundations of Living Systems section This book gives you the problem solving practice you need to take the exam with confidence 500 questions organized

by subject Follows the new MCAT format Complete explanations to every question given in the answer key *The Living World* George Brooks Johnson, Jonathan B. Losos, 2010 *Medical Biochemistry: The Big Picture* Lee W. Janson, Marc Tischler, 2012-02-17 Get the BIG PICTURE of Medical Biochemistry and target what you really need to know to ace the course exams and the USMLE Step 1 300 FULL COLOR ILLUSTRATIONS Medical Biochemistry The Big Picture is a unique biochemistry review that focuses on the medically applicable concepts and techniques that form the underpinnings of the diagnosis prognosis and treatment of medical conditions Those preparing for the USMLE residents as well as clinicians who desire a better understanding of the biochemistry behind a particular pathology will find this book to be an essential reference Featuring succinct to the point text more than 300 full color illustrations and a variety of learning aids Medical Biochemistry The Big Picture is designed to make complex concepts understandable in the shortest amount of time possible This full color combination text and atlas features Progressive chapters that allow you to build upon what you've learned in a logical effective manner Chapter Overviews that orient you to the important concepts covered in that chapter Numerous tables and illustrations that clarify and encapsulate the text Sidebars covering a particular disease or treatment add clinical relevance to topic discussed Essay type review questions at the end of each chapter allow you to assess your comprehension of the major topics USMLE style review questions at the end of each section Three appendices including examples of biochemically based diseases a review of basic biochemical techniques and a review of organic chemistry biochemistry

*Study Guide [for]* Charles Seiger, 2000 **Biology** Joseph P. Chinnici, Bradley, 1996 *Biological Science* Biological Sciences Curriculum Study, 1996 *Study Guide* George Karleskint, 1991 **Science** Di Barton, 1993 Longman GCSE Revise Guides are for use throughout the GCSE course and should be particularly useful for revision Each book aims to cover what students need to know understand and revise for maximum success so that they can approach GCSE examinations with confidence to study at the right pace how to make the most of time and energy and how to make continuous assessment really work major topics and themes course work how to prepare and present it for continuous assessment essential principles and applications to establish vital elements of each topic provides examiner commentary throughout to emphasize really important points contains GCSE exam questions and specimen answers for testing before the exams and typical students answers with the examiner's opinions and comments topic based chapter **Chapter Resource 11 Geme Technology Biology** Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004 *Cancer* David M. Prescott, Abraham S. Flexer, 1982

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