

# Study Guide

## CHAPTER 8 Section 3: Cellular Respiration

In your textbook, read about cellular respiration and glycolysis.

Use each of the terms below only once to complete the passage.

- ~~aerobic~~    ~~anaerobic~~    ~~ATP~~    ~~cellular respiration~~    ~~cytoplasm~~    ~~energy~~  
~~glucose~~    ~~glycolysis~~    ~~mitochondria~~    ~~NADH~~    ~~oxygen~~

Organisms obtain energy in a process called (1) Cellular respiration. This process harvests electrons from carbon compounds, such as (2) glucose, and uses that energy to make (3) ATP. ATP is used to provide (4) energy for cells to do work. In (5) glycolysis, glucose is broken down into pyruvate. Glycolysis is a(n) (6) anaerobic process because it does not require oxygen. Glycolysis takes place in the (7) cytoplasm. Two molecules of ATP and two molecules of (8) NADH are formed for every glucose molecule that is broken down. (9) Aerobic respiration takes place in the (10) mitochondria. It is aerobic because the process requires (11) oxygen.

Refer to the diagram of glycolysis. Label the steps in the description to match the diagram.

12. Step 4. Each three-carbon compound is converted into a three-carbon pyruvate.
13. Step 2. A six-carbon compound is broken down into two three-carbon compounds.
14. Step 1. Phosphate groups from two ATP molecules are transferred to a glucose molecule.
15. Step 3. Two NADH molecules and four ATP molecules are produced.

Respond to each question.

16. Interpret How many total ATP molecules are produced from the glycolysis of one six-carbon glucose?  
to 2 net ATP, 4 are produced.
17. Explain Why is there a net gain of only two ATP molecules in the glycolysis of one six-carbon glucose?  
4 are produced, but 2 are used to for ADP + P; so a net gain of 2 ATP



# Biology Chapter 14 Section 2 Study Guide Answers

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Gaither's Dictionary of Scientific Quotations Carl C. Gaither,Alma E. Cavazos-Gaither,2012-01-04 This unprecedented collection of 27 000 quotations is the most comprehensive and carefully researched of its kind covering all fields of science and mathematics With this vast compendium you can readily conceptualize and embrace the written images of scientists laymen politicians novelists playwrights and poets about humankind s scientific achievements Approximately 9000 high quality entries have been added to this new edition to provide a rich selection of quotations for the student the educator and the scientist who would like to introduce a presentation with a relevant quotation that provides perspective and historical background on his subject Gaither s Dictionary of Scientific Quotations Second Edition provides the finest reference source of science quotations for all audiences The new edition adds greater depth to the number of quotations in the various thematic arrangements and also provides new thematic categories

**Student Study Guide for Biology [by]**  
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*Teacher's Wraparound Edition: Twe Biology Everyday Experience* Albert Kaskel,1994-04-19 *Study Guide to Accompany Biology, the Science of Life, Third Edition* W. J. Leverich,1991 *Study Guide to Accompany Invitation to Biology, Second Edition, by Helena Curtis* Vivian Manns Null,1977

**Biology** Glencoe/McGraw-Hill,1994-07  
**Workbook and Laboratory Manual for Dental Radiography - E-Book** Joen Iannucci,Laura Jansen Howerton,2021-11-22 Reinforce your understanding of dental radiography with this practical workbook and lab manual The ideal companion to Iannucci and Howerton s bestselling Dental Radiography 6th Edition textbook this review helps you master need to know imaging principles and techniques Workbook modules correspond to the content in the textbook and use engaging exercises to help you learn review and apply imaging concepts Modules in the lab manual section provide a how to guide to performing key imaging procedures and techniques Bridging theory and practice this study tool provides everything you need to master dental imaging skills Case studies and critical thinking questions allow you to practice the application of your skills to dental practice Written exercises include objective style questions to assess your understanding of important content Hands on clinical laboratory activities include self peer and instructor assessment forms Illustrations technique photos and radiographs make concepts and procedures easier to understand Comprehensive coverage includes all areas of study for the dental radiography laboratory Chapter by chapter correlation to the textbook makes the workbook easy to use NEW Expanded content addresses the areas of digital imaging radiographic interpretation dental materials and dental X ray equipment NEW Updated illustrations include detailed photos of equipment and supplies as well as new photos of techniques NEW lab activities assessments case studies and critical thinking questions are added

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**Calculus** Ron Larson, Bruce H. Edwards, 1999 *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

Glencoe Science, 2002 **Science Spectrum** Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2003-03 **The Science Teacher**, 1982 Some issues are accompanied by a CD ROM on a selected topic

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