

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?
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



Cellular Respiration Study Guide With Answers

Johnson, Judith Stewart



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Life: The Science of Biology Study Guide William K. Purves, Edward Dzialowski, Lindsay Goodloe, Betty McGuire, Nancy Guild, Paula Mabee, 2003-12-26 New edition of a text presenting underlying concepts and showing their relevance to medical agricultural and environmental issues Seven chapters discuss the cell information and heredity evolutionary process the evolution of diversity the biology of flowering plants and of animals and ecology and biogeography Topics are linked by themes such as evolution the experimental foundations of knowledge the flow of energy in the living world the application and influence of molecular techniques and human health considerations Includes a CD ROM which covers some of the subject matter and introduces and illustrates 1 700 plus key terms and concepts Annotation copyrighted by Book News Inc Portland OR *Instructor's Manual and Study Guide Answers for the Human Body in Health and Disease* Barbara Janson Cohen, Memmler, 1996 **Inquiry Into Life, Study Guide** Sylvia S. Mader, 1982 **SBET Study Guide for BMET Certification**, 1997 **Modules** McDougal Littell Incorporated, 2005 **Student Study Guide, Human Anatomy and Physiology, Fifth Edition** Nancy A. Sickles Corbett, 1990 **Study Guide Essential Biology with Physiology** Edward J. Zalisko, 2003-07 Students can master key concepts and earn a better grade with the thought provoking exercises found in this study guide Study advice tables quizzes and crossword puzzles help students test their understanding of biology The Study Guide also includes references to student media activities on the Essential Biology CD ROM and Website **Study Guide to Accompany Biology by Karen Arms and Pamela S. Camp** Russell C. Hollingsworth, 1979 Student Study Guide Sharon Plowman, Denise Smith, 2002-07-29 by Sharon A Plowman and Denise L Smith An excellent study tool that offers students chapter review and study questions in true false multiple choice diagramming fill in the blank and word puzzle formats **Student Study Guide to Accompany Essentials Anatomy and Physiology** Jackie L. Butler, Shier, Ricki Lewis, Dr, Nancy Ann Sickles Corbett, 1999-06 *Study Guide for Man, Nature, and Society* Theodore W. Pohrte, L. Jack Pierce, 1975 **How Feedback Works** John Almarode, Douglas Fisher, Nancy Frey, 2022-08-06 Feedback keeps learning moving forward Picture water pouring into a crystal goblet That s how clear and dynamic feedback must be You can achieve that perfect swirl of giving receiving and integrating feedback with this remarkable book which is organized into 16 modules for self study or PLCs Major concepts include Defining Feedback learn the most useful types of feedback why to align them with transparent criteria how to gather evidence 4 C s of Feedback offer it with care credibility clarity and clear communication Gathering Evidence for Feedback use a balance of verbal written and kinesthetic responses peer collaboration checks for understanding technology and more **Study Guide to Accompany Biology, the Science of Life, Third Edition** W. J. Leverich, 1991 **Generative AI for Personalized Learning** Rajesh Kumar Dhanaraj, Balasamy Krishnasamy, Umapriya Rajendran, Suganyadevi Sellappan, Rohan Jaikumar, 2025-11-25 The rapid evolution of generative AI GenAI is reshaping education making personalized learning more adaptive accessible and effective than ever before This

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