

# 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~~

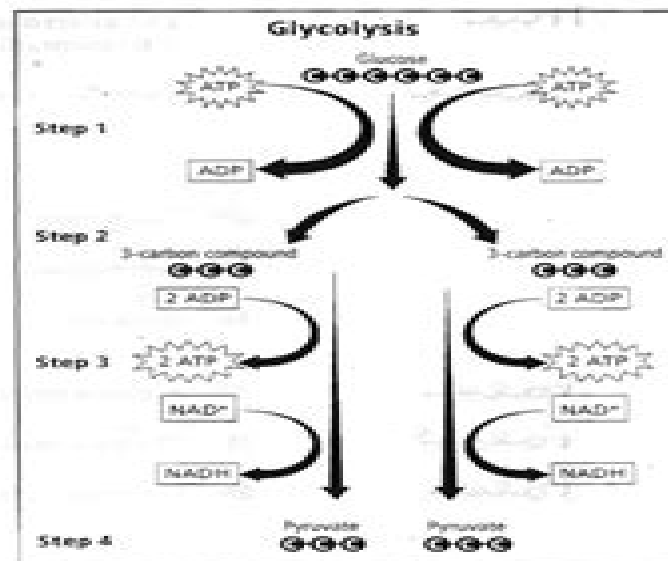
Organisms obtain energy in a process called (1) Cellular respiration. This process harvests electrons from carbon compounds, such as (2) glucose, and uses that energy to make (3) ATP. ATP is used to provide (4) energy for cells to do work. In (5) glycolysis, glucose is broken down into pyruvate. Glycolysis 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



# Chapter 8 Cellular Respiration Study Guide

**Linda Swisher, Kevin T. Patton**



## Chapter 8 Cellular Respiration Study Guide:

*Ultimate Human Body Study Guide* Pasquale De Marco, 2025-07-25 Are you fascinated by the human body and how it works Do you want to learn more about anatomy and physiology This book is the perfect resource for students nurses doctors and anyone else who wants to learn more about the human body This book covers all the essential topics in anatomy and physiology from the basics to the more complex It is written in a clear and concise style and it is packed with illustrations and diagrams to help you visualize the human body The book begins with a look at the basic building blocks of the body the cells It then explores the different tissues and organs of the body and it shows how they work together to form organ systems Finally the book takes a look at the human body as a whole and it explains how all of the different parts work together to keep us alive This book is an essential resource for anyone who wants to learn more about the human body It is a valuable tool for students nurses doctors and anyone else who is interested in anatomy and physiology Key Features Covers all the essential topics in anatomy and physiology Written in a clear and concise style Packed with illustrations and diagrams Ideal for students nurses doctors and anyone else who wants to learn more about the human body What Readers Are Saying This book is a great resource for anyone who wants to learn more about the human body It is well written and easy to understand and it is packed with information This book is a must have for any student who is studying anatomy and physiology It is a great way to learn about the human body and how it works This book is a great reference for nurses and doctors It provides a quick and easy way to look up information on the human body If you like this book write a review

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Gilbert D. Brum, Larry McKane, Gerald Karp, 1993-10-28 This lively richly illustrated text makes biology relevant and appealing revealing it as a dynamic process of exploration and discovery Portrays biologists as they really are human beings with motivations misfortunes and mishaps much like everyone has Encourages students to think critically solve problems apply biological principles to everyday life **Excel Science Study Guide, Years 7-8** Nicholas Pefani, 2005 *Study Guide to Accompany Biology, Third Edition, by Arms & Camp* Virginia Fry, 1987 Ssg- Human Biology 6E Student Study Guide Chiras, 2008-02 Human Biology Sixth Edition provides students with a clear and concise introduction to the general concepts of mammalian biology and human structure and function With its unique focus on health and homeostasis Human Biology enhances students understanding of their own health needs and presents the scientific background necessary for students to think critically about biological information they encounter in the media The completely revised content and exceptional new art and photos provide students with a more user friendly text while excellent learning tools maximize comprehension of material 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 *MCAT Biology MCQ (Multiple Choice Questions)* Arshad Iqbal, The MCAT Biology Multiple Choice Questions MCQ Quiz with Answers PDF MCAT Biology MCQ PDF Download Quiz Questions Chapter 1 27 Practice Tests with Answer Key Biology Questions Bank MCQs Notes includes revision guide for problem solving with hundreds of solved MCQs MCAT Biology MCQ with Answers PDF book covers basic concepts analytical and practical assessment tests MCAT Biology MCQ PDF book helps to practice test questions from exam prep notes The MCAT Biology MCQs with Answers PDF eBook includes revision guide with verbal quantitative and analytical past papers solved MCQs MCAT Biology Multiple Choice Questions and Answers MCQs PDF Free download chapter 1 a book covers solved quiz questions and answers on chapters Amino acids analytical methods carbohydrates citric acid cycle DNA replication enzyme activity enzyme structure and function eukaryotic chromosome organization evolution fatty acids and proteins metabolism gene expression in prokaryotes genetic code glycolysis gluconeogenesis and pentose phosphate pathway hormonal regulation and metabolism integration translation meiosis and genetic viability menDelian concepts metabolism of fatty acids and proteins non enzymatic protein function nucleic acid structure and function oxidative phosphorylation plasma membrane principles of biogenetics principles of metabolic regulation protein structure recombinant DNA and biotechnology transcription tests for college and university revision guide MCAT Biology Quiz Questions and Answers PDF free download eBook s sample covers beginner s solved questions textbook s study notes to practice online tests The book MCAT Biology MCQs Chapter 1 27 PDF includes high school question papers to review practice tests for exams MCAT Biology Multiple Choice Questions MCQ with Answers PDF digital edition eBook a study guide with textbook chapters tests for NEET MCAT MDCAT SAT ACT competitive exam MCAT Biology Mock Tests Chapter 1 27 eBook covers problem solving exam tests from biology textbook and practical eBook

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