

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



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Learnerator Education

A red circular graphic with a gradient, appearing as a partial circle or a thick arc, located to the right of the Learnerator Education text.

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AP Biology Study Guide Sundar Nathan, 2009-11 Sundar Nathan received a Bachelor's degree in Electrical Engineering from Anna University Chennai India and a Masters degree in Biomedical Engineering from the University of Texas at Austin Working for over a year with a team of talented PhDs MPhils and MScs from all over the world Sundar compiled this comprehensive study guide to help students prepare diligently understand the concepts and Crush the AP Bio Test **ASAP Biology: A Quick-Review Study Guide for the AP Exam** The Princeton Review, 2018-01-30 Looking for sample exams practice questions and test taking strategies Check out our extended in depth AP Biology prep guide **Cracking the AP Biology Exam LIKE CLASS NOTES ONLY BETTER** The Princeton Review's ASAP Biology is designed to help you zero in on just the information you need to know to successfully grapple with the AP test No questions no drills just review Advanced Placement exams require students to have a firm grasp of content you can't bluff or even logic your way to a 5 Like a set of class notes borrowed from the smartest student in your grade this book gives you exactly that No tricks or crazy stratagems no sample essays or practice sets Just the facts presented with lots of helpful visuals Inside ASAP Biology you'll find Essential concepts terms and functions for AP Biology all explained clearly concisely Diagrams charts lists and graphs for quick visual reference A three pass icon system designed to help you prioritize learning what you **MUST SHOULD** and **COULD** know in the time you have available Ask Yourself questions to help identify areas where you might need extra attention A resource that's perfect for last minute exam prep and for daily class work Topics covered in ASAP Biology include The chemistry of life Evolutionary biology Cells cellular energetics Heredity molecular genetics Animal structure function Behavior ecology Quantitative skills biostatistics and more Looking for sample exams practice questions and test taking strategies Check out our extended in depth AP Biology prep guide **Cracking the AP Biology Exam** **AP Biology: 21 Must Know Concepts to Ace the Test** Learnerator Education, 2015-05-06 Learn Key AP Biology Concepts in Under an Hour Read on your PC Mac smartphone tablet or Kindle device In **AP Biology 21 Must Know Concepts to Ace the Test** you'll learn many of the most frequently tested concepts for AP Biology including but not limited to Endosymbiosis the Hardy Weinberg Equation and Mendelian Genetics This book covers not only what these concepts are but why they are important in the context of AP Biology These articles were originally posted on the Learnerator blog and were compiled in no particular order If you feel like you have no idea where to start when it comes to AP Biology prep read this book to begin understanding 21 key concepts for the AP Biology exam Grab your copy today Here is a preview of what is inside this book Introduction Abiogenesis Anaerobic Respiration Animal Behavior Cell Organelles Diffusion Osmosis Dissolved Oxygen DNA Replication Endocrine System Endosymbiosis Enzymes Hardy Weinberg Equation Heredity Immune Systems Kingdoms Krebs Cycle Lipids Mendelian Genetics Mitosis and Meiosis Nucleic Acids Scientific Method Transcription and Translation Conclusion An excerpt from the book Anaerobic respiration is how cells make energy when as you may have guessed from the name there is no available oxygen In fact for this process

there is neither oxygen nor mitochondria present The two processes that allow this to work are those of glycolysis and fermentation In cellular respiration what we normally see is glucose breaks down to pyruvate and from this process we net 2 ATP Next the pyruvate will go into the mitochondria and enter the Krebs cycle In the process of being converted to acetyl CoA CO₂ is given off and another 2 ATP are made This energy is stored in NADH and FADH₂ Their electrons move into the electron transport chain which will move to oxygen to transform the product to water In this 23 34 ATP are made Tags ap biology ap bio ap biology review and study guide ap biology exam learnerator Step by Step Guide to Cell Respiration (Quick Biology Review and Handout) E Staff, Step by Step Guide to Cell Respiration Quick Biology Review and Handout Learn and review on the go Use Quick Review Biology Lecture Notes to help you learn or brush up on the subject quickly You can use the review notes as a reference to understand the subject better and improve your grades Perfect for high school college medical and nursing students and anyone preparing for standardized examinations such as the MCAT AP Biology Regents Biology and more **Advanced Placement Biology: Study and Review** Cybellium Ltd,2024-10-26 Designed for professionals students and enthusiasts alike our comprehensive books empower you to stay ahead in a rapidly evolving digital world Expert Insights Our books provide deep actionable insights that bridge the gap between theory and practical application Up to Date Content Stay current with the latest advancements trends and best practices in IT AI Cybersecurity Business Economics and Science Each guide is regularly updated to reflect the newest developments and challenges Comprehensive Coverage Whether you re a beginner or an advanced learner Cybellium books cover a wide range of topics from foundational principles to specialized knowledge tailored to your level of expertise Become part of a global network of learners and professionals who trust Cybellium to guide their educational journey www.cybellium.com **Conquering Biology: A Self-Assured Guide to Excellence in the AP Biology Exam** Pasquale De Marco,2025-07-12 Conquering Biology A Self Assured Guide to Excellence in the AP Biology Exam embarks on a captivating journey into the realm of biology unraveling the intricate mechanisms that govern the living world With its comprehensive coverage of biological concepts engaging writing style and abundance of illustrative examples this book is an essential resource for anyone seeking to unlock the mysteries of life Delve into the depths of cellular biology exploring the fundamental building blocks of life the structure and function of cells and the intricate processes that govern cellular metabolism Uncover the secrets of heredity tracing the flow of genetic information from one generation to the next and exploring the mechanisms that drive evolution the driving force behind the diversity of life on Earth Venture into the realm of ecology examining the intricate relationships between organisms and their environment From the delicate balance of ecosystems to the dynamics of populations Conquering Biology A Self Assured Guide to Excellence in the AP Biology Exam unravels the complexity of the living world highlighting the interconnectedness of all living things and the delicate balance that sustains life on our planet With its comprehensive coverage of biological concepts engaging writing style and abundance of illustrative examples Conquering

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