

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



Section 9 Cellular Respiration Study Guide Answers

Wenbin Ji



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Table of Contents Section 9 Cellular Respiration Study Guide Answers

1. Understanding the eBook Section 9 Cellular Respiration Study Guide Answers
 - The Rise of Digital Reading Section 9 Cellular Respiration Study Guide Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Section 9 Cellular Respiration Study Guide Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Section 9 Cellular Respiration Study Guide Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Section 9 Cellular Respiration Study Guide Answers
 - Personalized Recommendations
 - Section 9 Cellular Respiration Study Guide Answers User Reviews and Ratings
 - Section 9 Cellular Respiration Study Guide Answers and Bestseller Lists
5. Accessing Section 9 Cellular Respiration Study Guide Answers Free and Paid eBooks
 - Section 9 Cellular Respiration Study Guide Answers Public Domain eBooks
 - Section 9 Cellular Respiration Study Guide Answers eBook Subscription Services
 - Section 9 Cellular Respiration Study Guide Answers Budget-Friendly Options
6. Navigating Section 9 Cellular Respiration Study Guide Answers eBook Formats

- ePub, PDF, MOBI, and More
 - Section 9 Cellular Respiration Study Guide Answers Compatibility with Devices
 - Section 9 Cellular Respiration Study Guide Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Section 9 Cellular Respiration Study Guide Answers
 - Highlighting and Note-Taking Section 9 Cellular Respiration Study Guide Answers
 - Interactive Elements Section 9 Cellular Respiration Study Guide Answers
 8. Staying Engaged with Section 9 Cellular Respiration Study Guide Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Section 9 Cellular Respiration Study Guide Answers
 9. Balancing eBooks and Physical Books Section 9 Cellular Respiration Study Guide Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Section 9 Cellular Respiration Study Guide Answers
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Section 9 Cellular Respiration Study Guide Answers
 - Setting Reading Goals Section 9 Cellular Respiration Study Guide Answers
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Section 9 Cellular Respiration Study Guide Answers
 - Fact-Checking eBook Content of Section 9 Cellular Respiration Study Guide Answers
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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