

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



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Table of Contents Biology Cellular Respiration Study Guide Answers Pearson

1. Understanding the eBook Biology Cellular Respiration Study Guide Answers Pearson
 - The Rise of Digital Reading Biology Cellular Respiration Study Guide Answers Pearson
 - Advantages of eBooks Over Traditional Books
2. Identifying Biology Cellular Respiration Study Guide Answers Pearson
 - 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 Biology Cellular Respiration Study Guide Answers Pearson
 - User-Friendly Interface
4. Exploring eBook Recommendations from Biology Cellular Respiration Study Guide Answers Pearson
 - Personalized Recommendations
 - Biology Cellular Respiration Study Guide Answers Pearson User Reviews and Ratings
 - Biology Cellular Respiration Study Guide Answers Pearson and Bestseller Lists
5. Accessing Biology Cellular Respiration Study Guide Answers Pearson Free and Paid eBooks
 - Biology Cellular Respiration Study Guide Answers Pearson Public Domain eBooks
 - Biology Cellular Respiration Study Guide Answers Pearson eBook Subscription Services
 - Biology Cellular Respiration Study Guide Answers Pearson Budget-Friendly Options

6. Navigating Biology Cellular Respiration Study Guide Answers Pearson eBook Formats
 - ePub, PDF, MOBI, and More
 - Biology Cellular Respiration Study Guide Answers Pearson Compatibility with Devices
 - Biology Cellular Respiration Study Guide Answers Pearson Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Biology Cellular Respiration Study Guide Answers Pearson
 - Highlighting and Note-Taking Biology Cellular Respiration Study Guide Answers Pearson
 - Interactive Elements Biology Cellular Respiration Study Guide Answers Pearson
8. Staying Engaged with Biology Cellular Respiration Study Guide Answers Pearson
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Biology Cellular Respiration Study Guide Answers Pearson
9. Balancing eBooks and Physical Books Biology Cellular Respiration Study Guide Answers Pearson
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Biology Cellular Respiration Study Guide Answers Pearson
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Biology Cellular Respiration Study Guide Answers Pearson
 - Setting Reading Goals Biology Cellular Respiration Study Guide Answers Pearson
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Biology Cellular Respiration Study Guide Answers Pearson
 - Fact-Checking eBook Content of Biology Cellular Respiration Study Guide Answers Pearson
 - 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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