

# 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



# Study Guide On Cellular Respiration Answer Key

**George Karleskint**



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    - Chapter 2: Essential Elements of Study Guide On Cellular Respiration Answer Key
    - Chapter 3: Study Guide On Cellular Respiration Answer Key in Everyday Life
    - Chapter 4: Study Guide On Cellular Respiration Answer Key in Specific Contexts
    - Chapter 5: Conclusion
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- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Study Guide On Cellular Respiration Answer Key.

## **Table of Contents Study Guide On Cellular Respiration Answer Key**

1. Understanding the eBook Study Guide On Cellular Respiration Answer Key
  - The Rise of Digital Reading Study Guide On Cellular Respiration Answer Key
  - Advantages of eBooks Over Traditional Books
2. Identifying Study Guide On Cellular Respiration Answer Key
  - 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 Study Guide On Cellular Respiration Answer Key
  - User-Friendly Interface
4. Exploring eBook Recommendations from Study Guide On Cellular Respiration Answer Key
  - Personalized Recommendations
  - Study Guide On Cellular Respiration Answer Key User Reviews and Ratings
  - Study Guide On Cellular Respiration Answer Key and Bestseller Lists
5. Accessing Study Guide On Cellular Respiration Answer Key Free and Paid eBooks
  - Study Guide On Cellular Respiration Answer Key Public Domain eBooks
  - Study Guide On Cellular Respiration Answer Key eBook Subscription Services
  - Study Guide On Cellular Respiration Answer Key Budget-Friendly Options
6. Navigating Study Guide On Cellular Respiration Answer Key eBook Formats
  - ePub, PDF, MOBI, and More
  - Study Guide On Cellular Respiration Answer Key Compatibility with Devices
  - Study Guide On Cellular Respiration Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Study Guide On Cellular Respiration Answer Key
  - Highlighting and Note-Taking Study Guide On Cellular Respiration Answer Key
  - Interactive Elements Study Guide On Cellular Respiration Answer Key

8. Staying Engaged with Study Guide On Cellular Respiration Answer Key
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Study Guide On Cellular Respiration Answer Key
9. Balancing eBooks and Physical Books Study Guide On Cellular Respiration Answer Key
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Study Guide On Cellular Respiration Answer Key
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Study Guide On Cellular Respiration Answer Key
  - Setting Reading Goals Study Guide On Cellular Respiration Answer Key
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Study Guide On Cellular Respiration Answer Key
  - Fact-Checking eBook Content of Study Guide On Cellular Respiration Answer Key
  - 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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