

# 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



# Cellular Respiration Answer Key Guide

**Barbara R. Blackburn, Abbigail  
Armstrong**



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

1. Understanding the eBook Cellular Respiration Answer Key Guide
  - The Rise of Digital Reading Cellular Respiration Answer Key Guide
  - Advantages of eBooks Over Traditional Books
2. Identifying Cellular Respiration Answer Key Guide
  - 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 Cellular Respiration Answer Key Guide
  - User-Friendly Interface
4. Exploring eBook Recommendations from Cellular Respiration Answer Key Guide
  - Personalized Recommendations
  - Cellular Respiration Answer Key Guide User Reviews and Ratings
  - Cellular Respiration Answer Key Guide and Bestseller Lists
5. Accessing Cellular Respiration Answer Key Guide Free and Paid eBooks



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