

Chapter 9: Cellular Respiration and Fermentation

State Standards:

- 2.4 Identify the reactants, products, and basic purposes of photosynthesis and cellular respiration. Explain the interrelated nature of photosynthesis and cellular respiration in the cells of photosynthetic organisms.

Key Terms

Calorie / calorie
Cellular Respiration
Anaerobic
Aerobic
Glycolysis
Glucose
NAD⁺ / NADH

Krebs's Cycle
Mitochondrial Matrix
Fermentation
Controlled Release
Mitochondria
Cytosol
Electron Carrier

Electron Transport
Pyruvic Acid
ATP / ADP
Synthesize
Citric Acid
ATP Synthase
FADH₂

You should be able to:

1. Explain where organisms get the energy they need for life processes.
2. Define cellular respiration.
3. Compare photosynthesis and cellular respiration.
4. Describe what happens during glycolysis.
5. Describe what happens during the Krebs Cycle.
6. Explain how high-energy electrons are used by the electron transport chain.
7. Identify how much ATP cellular respiration generates in each step of the process.
8. Explain how organisms get energy in the absence of oxygen.
9. Identify the pathways the body uses to release energy during exercise.

You should know the difference between:

- Photosynthesis, Cellular Respiration, and Fermentation
- ADP and ATP
- NAD⁺ and NADH
- Glycolysis, Krebs Cycle, and Electron Transport Chain
- Be able to distinguish between all of the parts of a mitochondria (matrix, inner membrane, outer membrane, and intermembrane space) and describe what occurs at each location.
- Glucose, pyruvic acid, and citric acid
- Anaerobic and aerobic respiration
- Lactic Acid Fermentation and Alcoholic Fermentation
- Sources for quick energy and long-term energy

Chapter 9 Cell Respiration Study Guide

SJ Ball



Chapter 9 Cell Respiration Study Guide:

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Table of Contents Chapter 9 Cell Respiration Study Guide

1. Understanding the eBook Chapter 9 Cell Respiration Study Guide
 - The Rise of Digital Reading Chapter 9 Cell Respiration Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 9 Cell Respiration Study 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 a Chapter 9 Cell Respiration Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter 9 Cell Respiration Study Guide
 - Personalized Recommendations
 - Chapter 9 Cell Respiration Study Guide User Reviews and Ratings

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