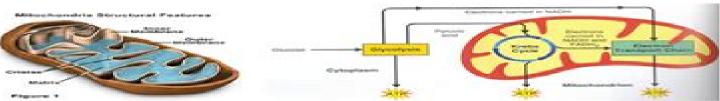
CHAPTER 9: CELLULAR RESPIRATION STUDY GUIDE

 Draw and label the parts in a mitochondrion and show where the different reactions happen.



2. Write the chemical formula for cellular respiration in symbols and words.

C₆H₁₂O₆+6O₂ → 6CO₂+6H₂O+Energy (ATP) Glucose (food) + oxygen = carbon dioxide + water + energy

- How does this equation compare to the equation for photosynthesis?
 It is the opposite/reverse. The products and reactants are flipped.
- 3. Describe the steps of Glycolysis.
- 6 carbon glucose molecule is broken in half forming 2 3 carbon molecules known as pyruvic acid. This requires 2 ATP molecules of energy.
- In order to form pyruvic acid, 2 NADH are formed by accepting electrons, and 4 ATP molecules are formed in that process.
- 4. List the products of Glycolysis.
 - 2 ATP net total
 - 2 NADH
 - 2 Pyruvic acid molecules
- 5. Describe the steps of Alcoholic fermentation.
- Glycolysis must occur first, producing 2ATP and 2 NADH.
- If no oxygen is present, it then goes into alcoholic fermentation.
- Pyruvic acid losses a Carbon to form carbon dioxide.
- NADH donates its electrons now creating a 2Carbon molecule known as ethyl alcohol.



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Murray Shukyn, Achim K. Krull

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Table of Contents Chapter 9 Cellular Respiration Study Guide Questions

- 1. Understanding the eBook Chapter 9 Cellular Respiration Study Guide Questions
 - The Rise of Digital Reading Chapter 9 Cellular Respiration Study Guide Questions
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Chapter 9 Cellular Respiration Study Guide Questions
 - 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 Chapter 9 Cellular Respiration Study Guide Questions
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Chapter 9 Cellular Respiration Study Guide Questions
 - Personalized Recommendations
 - $\circ\,$ Chapter 9 Cellular Respiration Study Guide Questions User Reviews and Ratings
 - o Chapter 9 Cellular Respiration Study Guide Questions and Bestseller Lists
- 5. Accessing Chapter 9 Cellular Respiration Study Guide Questions Free and Paid eBooks
 - Chapter 9 Cellular Respiration Study Guide Questions Public Domain eBooks
 - Chapter 9 Cellular Respiration Study Guide Questions eBook Subscription Services

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