

Cellular Respiration: Harvesting Chemical Energy

I. Introduction

Chemical elements essential to life are recycled but energy is not. It flows into the ecosystem as sunlight and back out as heat (Figure 9.2)

- Organic compounds store energy in their arrangements of atoms.
- Catabolic pathways systematically degrade complex organic molecules (rich in energy) to simpler waste products, which store less energy. In the process, energy is transferred from the energy rich nutrient molecules to energy rich molecules that can be used directly by the cell to perform work.

Cellular Respiration

- Organic compounds are degraded in the presence of oxygen to produce carbon dioxide, water and usable forms of energy (i.e., ATP)

Organic Compounds + O₂ → CO₂ + H₂O + Energy (work + heat)

Organic compounds

- carbohydrates (e.g., glucose)
- fats
- proteins

$C_6H_{12}O_6 + 6 O_2 \rightarrow 6 CO_2 + 6 H_2O + \text{Energy (ATP + Heat)}$

$\Delta G = -686 \text{ kcal/mol of glucose}$

Where does cellular respiration occur?

II. What is Cellular Respiration?

Cellular respiration is how cells transfer the energy stored in complex organic molecules ("food") to ATP

- Cellular respiration is a controlled stepwise oxidation of organic molecules in a cell
- Enzymes catalyze oxidation via a series of small steps. Free energy is transferred to carrier molecules (most often but not always ATP and NADH).

What is Oxidation?

- During catabolism of organic molecules, electrons are relocated. This releases stored energy that is used to synthesize ATP and generate heat.
- Transfer of one or more electrons (e⁻) from one reactant to another occurs in many chemical reactions.
- These e⁻ transfers are oxidation-reduction reactions or redox reactions.

Chapter 9 Cellular Respiration Reading Guide Answer Key

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Table of Contents Chapter 9 Cellular Respiration Reading Guide Answer Key

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

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