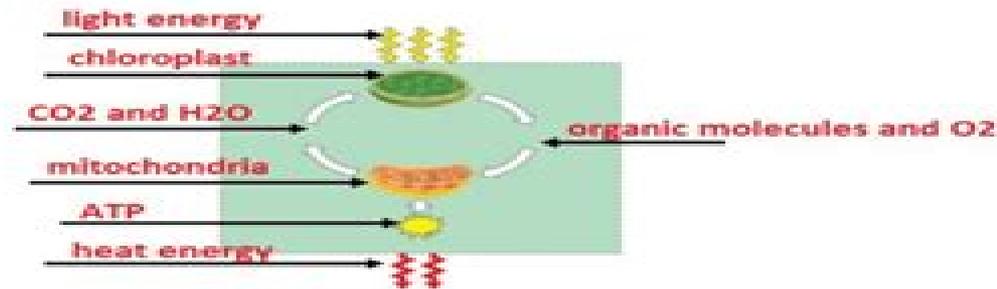


Chapter 7 Reading Guide – ANSWER KEY

Overview: Before getting involved with the details of cellular respiration and photosynthesis, take a look at the big picture. Photosynthesis and cellular respiration are key ecological concepts involved with energy flow. Label the following diagram.



1. In general terms, distinguish between fermentation and cellular respiration. Fermentation is the process by which cells produce ATP in the absence of oxygen and cellular respiration is the process by which cells produce ATP in the presence of oxygen.
2. Write the summary equation for cellular respiration. Write the specific chemical equation for the degradation of glucose. Summary equation for cellular respiration is organic compounds + oxygen → carbon dioxide + water + energy. $C_6H_{12}O_6 + 6O_2 \rightarrow 6CO_2 + 6H_2O + \text{Energy (ATP + heat)}$
3. Define **oxidation** and **reduction**. Cellular respiration is an example of a redox reaction. Oxidation is the loss of electrons from one substance and reduction is the addition of electrons to another substance. During cellular respiration, glucose is "oxidized" because it loses electrons and oxygen is "reduced" because it gains electrons.
4. Explain in general terms how redox reactions are involved in energy exchanges. Redox reactions involve one substance losing electrons (oxidized) and another substance gaining electrons (reduced) in the same reaction. As electrons are transferred between substances, the electrons lose potential energy and energy is released. The exchange of electrons transfers energy from one set of chemicals to another.
5. Describe the role of NAD⁺ in cellular respiration. NAD⁺ is a coenzyme that acts as an "electron shuttle" or electron-carrier molecule. It is responsible for shuttling electrons from glucose and other intermediates to the electron transport chain.
6. In general terms, explain the role of the electron transport chain in cellular respiration. The electron transport chain involves a series of redox reactions in which electrons pass from carrier to carrier down to the final electron acceptor, oxygen. As the electrons are passed down the chain, the electrons lose potential energy. The energy released is used to phosphorylate ADP and form ATP.

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A Gutmann



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Table of Contents Ap Biology Cellular Respiration Study Guide

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

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