Biology: Photosynthesis and Respiration

3

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Introduction

Photosynthesis is the process by which plants assemble carbon-based compounds which are the building blocks and energy stores of life. Plants first entrap sunlight energy and convert it to a chemical energy in ATP molecules which are in form of bonds. ATP brings energy to reactions where glucose is formed from water and carbon dioxide. To finish, glucose molecules are combined to form starch and other molecules. Oxygen is also produced during photosynthesis which is released in to the atmosphere (Koning, 1994, p. 1). The process of photosynthesis is summarized in the equation below;

12 H₂O+6 CO₂ →→6 O₂+C₆H₇₂O₆+6H₂O

Aerobic respiration is a procedure of cellular respiration that utilizes oxygen to split molecules to release electrons and form energy (Gregory, 2006, p. 2). In this process adenosine triphosphate (ATP) is produced which is liable for storing up and transporting most energy to other body cells. Aerobic respiration has two by-products which are water and carbon dioxide. It usually involves three main stages of reactions glycolysis which include the Kreb's cycle and electron transport phosphorylation. The equation below is a summary of aerobic respiration:

 $C_6H_{12}O_6+6O_2 \longrightarrow -6CO_2+6H_2O$

How the two processes are linked between plants and animals based on the reactants and products of both pathways

The two processes are the life blood of plants and animals. These processes link in the way that the by-products of one process are used as the raw materials of the other.

Photosynthesis Essay 1 Page

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Table of Contents Photosynthesis Essay 1 Page

- 1. Understanding the eBook Photosynthesis Essay 1 Page
 - The Rise of Digital Reading Photosynthesis Essay 1 Page
 - o Advantages of eBooks Over Traditional Books
- 2. Identifying Photosynthesis Essay 1 Page
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - o Features to Look for in an Photosynthesis Essay 1 Page
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Photosynthesis Essay 1 Page
 - Personalized Recommendations
 - Photosynthesis Essay 1 Page User Reviews and Ratings
 - Photosynthesis Essay 1 Page and Bestseller Lists
- 5. Accessing Photosynthesis Essay 1 Page Free and Paid eBooks
 - Photosynthesis Essay 1 Page Public Domain eBooks
 - Photosynthesis Essay 1 Page eBook Subscription Services
 - Photosynthesis Essay 1 Page Budget-Friendly Options
- 6. Navigating Photosynthesis Essay 1 Page eBook Formats
 - o ePub, PDF, MOBI, and More
 - o Photosynthesis Essay 1 Page Compatibility with Devices
 - Photosynthesis Essay 1 Page Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Photosynthesis Essay 1 Page
 - Highlighting and Note-Taking Photosynthesis Essay 1 Page
 - o Interactive Elements Photosynthesis Essay 1 Page
- 8. Staying Engaged with Photosynthesis Essay 1 Page

- o Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Photosynthesis Essay 1 Page
- 9. Balancing eBooks and Physical Books Photosynthesis Essay 1 Page
 - Benefits of a Digital Library
 - o Creating a Diverse Reading Collection Photosynthesis Essay 1 Page
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Photosynthesis Essay 1 Page
 - Setting Reading Goals Photosynthesis Essay 1 Page
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Photosynthesis Essay 1 Page
 - o Fact-Checking eBook Content of Photosynthesis Essay 1 Page
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - o Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - $\circ \ \ Integration \ of \ Multimedia \ Elements$
 - Interactive and Gamified eBooks

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