



Photosynthesis and Respiration in *Elodea*

Background Concepts:

Plants can carry out both photosynthesis and respiration simultaneously. During photosynthesis, plants are using the energy of the sun to build molecules which effectively store this energy (glucose). Chemically, the photosynthetic reaction looks like this:



During respiration, plants are using this stored energy (glucose), to fuel their metabolic processes. Chemically, the respiratory process looks like this:



Remember that plants can carry out respiration all the time!

Among other things, the converted energy from respiration is used to synthesize molecules, move materials around within the organism, grow (create new cells) and reproduce. Notice that in **photosynthesis**, CO₂ (carbon dioxide) is being used up as it is “fixed” into glucose molecules. During **respiration** the opposite is true. As the plant releases the energy stored in glucose by breaking it down, CO₂ is being given off into the surrounding water or atmosphere. The relationship between these two processes is special in that it allows plants to recycle some of their by-products. (While CO₂ is being given off during respiration, it can be re-utilized during photosynthesis.)

In this lab, you will try to demonstrate the net change in carbon dioxide when the common fresh water plant *Elodea* is placed under different conditions. You will be using a **pH indicator, bromthymol blue**, as a means of determining the presence or absence of CO₂.

A solution of bromthymol blue changes color when CO₂ is introduced. It changes color due to a change in pH. When CO₂ is dissolved in water, it forms carbonic acid. This lowers the pH of the solution and causes the bromthymol blue to change its appearance.

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Table of Contents Photosynthesis And Respiration In Elodea Answer Key Cornell

1. Understanding the eBook Photosynthesis And Respiration In Elodea Answer Key Cornell
 - The Rise of Digital Reading Photosynthesis And Respiration In Elodea Answer Key Cornell
 - Advantages of eBooks Over Traditional Books
2. Identifying Photosynthesis And Respiration In Elodea Answer Key Cornell
 - 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 Photosynthesis And Respiration In Elodea Answer Key Cornell
 - User-Friendly Interface
4. Exploring eBook Recommendations from Photosynthesis And Respiration In Elodea Answer Key Cornell
 - Personalized Recommendations
 - Photosynthesis And Respiration In Elodea Answer Key Cornell User Reviews and Ratings

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