

Photosynthesis & Cell Respiration POGIL

What is the relationship between photosynthesis and cell respiration?

Why?

Photosynthesis and cellular respiration are important cell energy processes. They are connected in ways that are vital for the survival of almost all forms of life on earth. In this activity you will examine the process of photosynthesis and how cellular respiration and photosynthesis are tied together.

Model 1 – Leaf Sun-Catcher: Leaves help plants capture sunlight so that it can be used to produce food for itself in a process called **photosynthesis**. Leaves tend to be green in color because they contain **chlorophyll** which is a green pigment found in chloroplasts. **Chloroplasts** are organelles found in plants that contain the chlorophyll; this is the structure in which photosynthesis occurs.

1. List 3 inputs (things entering) for the leaf in Model 1.

2. List 3 outputs (things leaving) for the leaf in Model 1.

3. Use the general equation for photosynthesis and Model 1 to answer the following questions.

a. What are the reactants for photosynthesis?

INPUTS _____

b. Reactants are also known as: (Circle one)

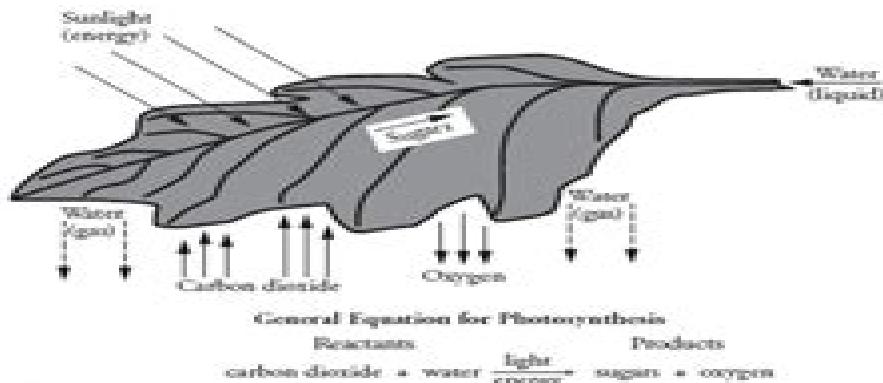
OUTPUTS _____

c. What are the products of photosynthesis?

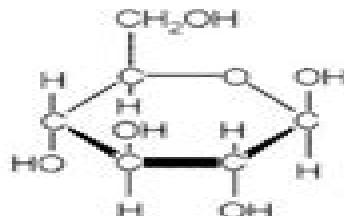
INPUTS _____

d. Products are also known as: (Circle one)

OUTPUTS _____



Model 2 – Glucose: **Glucose** is the sugar that gets produced during the process of photosynthesis; the plant uses this food source to build itself. **Most of a plant's mass will come from the air because that is where it gets the carbon dioxide (CO_2) needed to make glucose.** Glucose is also sometimes referred to as "blood sugar"; the glucose in your bloodstream comes from the digestion of the food you eat.



4. Count the number of Carbon (C) atoms in a molecule of glucose. _____
5. Count the number of Hydrogen (H) atoms in a molecule of glucose. _____
6. Count the number of Oxygen (O) atoms in a molecule of glucose. _____
7. Complete this chemical formula for glucose; fill in the blanks with the correct numbers that you counted in #4, #5, and #6. C ____ H ____ O ____

8. Where does the carbon used to make glucose come from? _____

Pogil Photosynthesis And Respiration Answer Key

William G. Hopkins

Pogil Photosynthesis And Respiration Answer Key:

Key Concepts Rebecca L. Johnson,2014 *Energy for Life* Betty D. Allamong,Thomas Robert Mertens,1976
Photosynthesis and Respiration John William Marklewitz,1995 *Photosynthesis & Respiration Science Learning Guide* NewPath Learning,2014-03-01 The Photosynthesis Photosynthesis Overview Leaf Structure Process of Photosynthesis Effects of Light Overview of Cellular Respiration Process of Cellular Respiration Connection between Photosynthesis and Fermentation Aligned to Next Generation Science Standards NGSS and other state standards **Photosynthesis and Respiration Progress Report** J. Mayo,1970 **Advances in Photosynthesis and Respiration** ,20?? *The Relation of Photosynthesis to Respiration* John Wolfgang Weigl,P. M. Warrington,Melvin Calvin,1950 The gas exchange by barley leaves of oxygen carbon dioxide and added radiocarbon dioxide has been measured in a closed system with the following results 1 Carbon dioxide follows different but not necessarily independent paths in photosynthesis and light respiration 2 The carbon of newly formed photosynthetic intermediates is not available for respiration while the light is on but becomes immediately respirable in the dark The enhancement of dark respiration after a light period is largely due to built up photosynthates 3 Photosynthesis proceeds at a measurable rate even at the lowest CO₂ pressures observed 0 03 mm Hg There is no evidence for a threshold concentration of carbon dioxide for the reaction at the lowest concentrations reached respiration exactly equals assimilation 4 The mean rate of respiratory CO₂ evolution in strong light was found to be less than that in the dark Internal re photosynthesis of respiratory carbon may have been sufficient to account for this effect 5 The assimilation of C₁₄O₂ is about 17% slower than that of C₁₂O₂ **The Effect of Computer-assisted Instruction and Laboratory Experimentation on the Learning of Photosynthesis and Respiration in High School Biology** Marlo Dawn Wiltse,2002 **A Unit on Photosynthesis and Cellular Respiration for Secondary Biology Students** Kathy R. Pollock,1998 *Photosynthesis & Respiration*[Cathrine M. Monson,2001* *Respiration and Photosynthesis* Donna Latham,2008-07-01 **Quantitative Experiments on Photosynthesis and Respiration in Green Plants** S. M. Baker,1913 *Photosynthesis and Respiration* William G. Hopkins,2006-01 Follows the flow of sun energy in plants from photosynthesis through respiration From source other than the Library of Congress *The Pattern of Photosynthesis and Respiration in Laboratory Microecosystems* Robert John Beyers,1965 *Secondary Students' Understanding of Photosynthesis and Respiration in Plants* Filocha Haslam,1987 *The Relation of Quantum Requirement in Photosynthesis to Respiration* James A. Bassham,Kazuo Shibata,1955 *Photosynthesis and Respiration* Lisa Dannewitz Martineau,2005 *Effect of Light and Potassium Nutrition on Photosynthesis and Respiration* Jimmy Lee Ozburn,1964 *Appendix to Workbook 19* ,1990 **Studies in Plant Respiration and Photosynthesis** Herman Augustus Spoehr,John Merritt McGee,1923

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Table of Contents Pogil Photosynthesis And Respiration Answer Key

1. Understanding the eBook Pogil Photosynthesis And Respiration Answer Key
 - The Rise of Digital Reading Pogil Photosynthesis And Respiration Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Pogil Photosynthesis And Respiration 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 Pogil Photosynthesis And Respiration Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Pogil Photosynthesis And Respiration Answer Key
 - Personalized Recommendations
 - Pogil Photosynthesis And Respiration Answer Key User Reviews and Ratings
 - Pogil Photosynthesis And Respiration Answer Key and Bestseller Lists
5. Accessing Pogil Photosynthesis And Respiration Answer Key Free and Paid eBooks
 - Pogil Photosynthesis And Respiration Answer Key Public Domain eBooks
 - Pogil Photosynthesis And Respiration Answer Key eBook Subscription Services
 - Pogil Photosynthesis And Respiration Answer Key Budget-Friendly Options
6. Navigating Pogil Photosynthesis And Respiration Answer Key eBook Formats
 - ePUB, PDF, MOBI, and More
 - Pogil Photosynthesis And Respiration Answer Key Compatibility with Devices
 - Pogil Photosynthesis And Respiration Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Pogil Photosynthesis And Respiration Answer Key
 - Highlighting and Note-Taking Pogil Photosynthesis And Respiration Answer Key
 - Interactive Elements Pogil Photosynthesis And Respiration Answer Key
8. Staying Engaged with Pogil Photosynthesis And Respiration Answer Key

- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Pogil Photosynthesis And Respiration Answer Key
9. Balancing eBooks and Physical Books Pogil Photosynthesis And Respiration Answer Key
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Pogil Photosynthesis And Respiration Answer Key
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Pogil Photosynthesis And Respiration Answer Key
- Setting Reading Goals Pogil Photosynthesis And Respiration Answer Key
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Pogil Photosynthesis And Respiration Answer Key
- Fact-Checking eBook Content of Pogil Photosynthesis And Respiration 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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3 optimierung des mechanischen bauteilverhaltens 148

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