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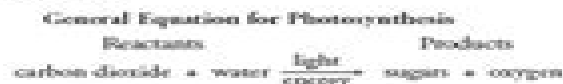
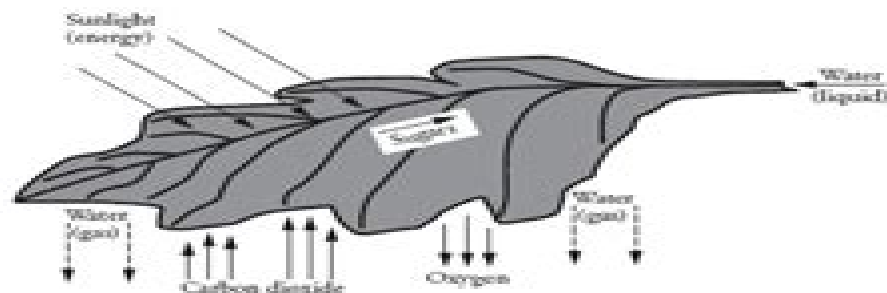
Photosynthesis & Cell Respiration POGIL

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?
b. Reactants are also known as: (Circle one)
c. What are the products of photosynthesis?
d. Products are also known as: (Circle one)

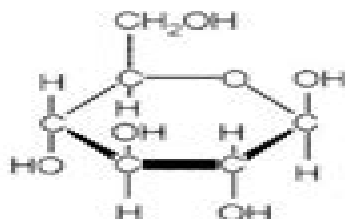
INPUTS

OUTPUTS

INPUTS

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 Activities For Biology Answer Key Photosynthesis

Donna Latham



Pogil Activities For Biology Answer Key Photosynthesis:

Chapter Resource 5 Photosynthesis/Cell Response Biology Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004-01-01 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 D. O. Hall, 1972 A Unit on Photosynthesis and Cellular Respiration for Secondary Biology Students Kathy R. Pollock, 1998 **Photosynthesis** R. P. F. Gregory, 1989-01-01 Handbook of Photosynthesis, Second Edition Mohammad Pessarakli, 1996-09-09 Details all of the photosynthetic factors and processes under both normal and stressful conditions covering lower and higher plants as well as related biochemistry and plant molecular biology Contains authoritative contributions from over 125 experts in the field from 28 countries and includes almost 500 drawings photographs micrographs tables and equations reinforcing and clarifying important text material *Photosynthesis* Charles P. Whittingham, 1971 **Ecosystems: Photosynthesis** Angela Wagner, 2013-10-01 This is the chapter slice Photosynthesis from the full lesson plan Ecosystems Study biotic and abiotic Ecosystems presented in a way that makes it more accessible to students and easier to understand Discover the difference between Producers Consumers and Decomposers Look at evolving populations change in Ecosystems Food Chains and Webs Understand what and why we classify what is Photosynthesis and how the water cycle interacts with man to microorganisms An ecosystem is a group of things that work and live together in an environment Our resource provides ready to use information and activities for remedial students using simplified language and vocabulary Ready to use reading passages student activities and color mini posters our resource is effective for a whole class small group and independent work All of our content meets the Common Core State Standards and are written to Bloom s Taxonomy and STEM initiatives *Photosynthesis*, 2001 **Photosynthesis** David Oakley Hall, K. K. Rao, 1977

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Donna Latham, 2016-08 Discusses respiration and photosynthesis revealing how these functions allow plants to grow and produce energy Includes facts boxes sidebars charts captions and hands on activities [The Mechanism of Photosynthesis](#)

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and bacterial photosynthesis Eukaryotic algae Blue green algae Electron transport and photophosphorylation in
photosynthetic bacteria Author index Subject index

Unveiling the Power of Verbal Artistry: An Emotional Sojourn through **Pogil Activities For Biology Answer Key Photosynthesis**

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Table of Contents Pogil Activities For Biology Answer Key Photosynthesis

1. Understanding the eBook Pogil Activities For Biology Answer Key Photosynthesis
 - The Rise of Digital Reading Pogil Activities For Biology Answer Key Photosynthesis
 - Advantages of eBooks Over Traditional Books
2. Identifying Pogil Activities For Biology Answer Key Photosynthesis
 - 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 Activities For Biology Answer Key Photosynthesis
 - User-Friendly Interface
4. Exploring eBook Recommendations from Pogil Activities For Biology Answer Key Photosynthesis

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

- Fact-Checking eBook Content of Pogil Activities For Biology Answer Key Photosynthesis
- 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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