

Name(s): \_\_\_\_\_ Period: \_\_\_\_\_ Date: \_\_\_\_\_

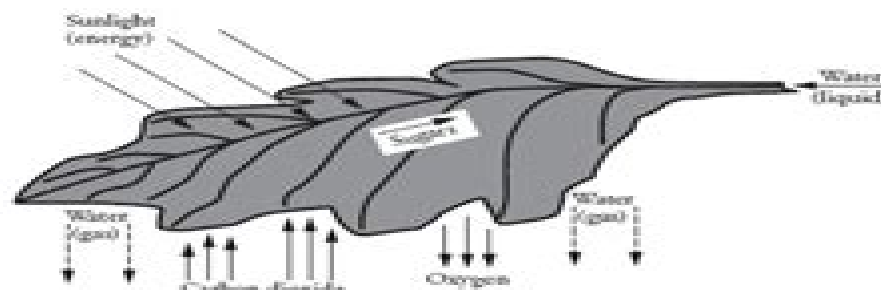
## Photosynthesis & Cell Respiration POGIL

*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)

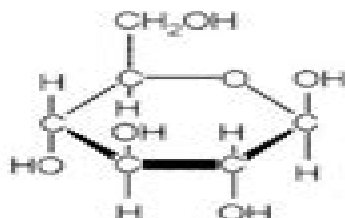
INPUTS

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<sub>2</sub>) 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? \_\_\_\_\_

# Stanley Photosynthesis Pogil Answer Key

**Padhraic Smyth**



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## **Table of Contents Stanley Photosynthesis Pogil Answer Key**

1. Understanding the eBook Stanley Photosynthesis Pogil Answer Key
  - The Rise of Digital Reading Stanley Photosynthesis Pogil Answer Key
  - Advantages of eBooks Over Traditional Books
2. Identifying Stanley Photosynthesis Pogil 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 Stanley Photosynthesis Pogil Answer Key
  - User-Friendly Interface
4. Exploring eBook Recommendations from Stanley Photosynthesis Pogil Answer Key
  - Personalized Recommendations
  - Stanley Photosynthesis Pogil Answer Key User Reviews and Ratings
  - Stanley Photosynthesis Pogil Answer Key and Bestseller Lists
5. Accessing Stanley Photosynthesis Pogil Answer Key Free and Paid eBooks
  - Stanley Photosynthesis Pogil Answer Key Public Domain eBooks
  - Stanley Photosynthesis Pogil Answer Key eBook Subscription Services
  - Stanley Photosynthesis Pogil Answer Key Budget-Friendly Options
6. Navigating Stanley Photosynthesis Pogil Answer Key eBook Formats

- ePub, PDF, MOBI, and More
  - Stanley Photosynthesis Pogil Answer Key Compatibility with Devices
  - Stanley Photosynthesis Pogil Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Stanley Photosynthesis Pogil Answer Key
    - Highlighting and Note-Taking Stanley Photosynthesis Pogil Answer Key
    - Interactive Elements Stanley Photosynthesis Pogil Answer Key
  8. Staying Engaged with Stanley Photosynthesis Pogil Answer Key
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Stanley Photosynthesis Pogil Answer Key
  9. Balancing eBooks and Physical Books Stanley Photosynthesis Pogil Answer Key
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Stanley Photosynthesis Pogil Answer Key
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Stanley Photosynthesis Pogil Answer Key
    - Setting Reading Goals Stanley Photosynthesis Pogil Answer Key
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Stanley Photosynthesis Pogil Answer Key
    - Fact-Checking eBook Content of Stanley Photosynthesis Pogil 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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