

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)

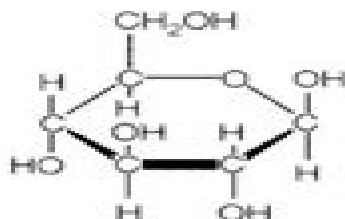
INPUTS

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 ( $\text{CO}_2$ ) 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? \_\_\_\_\_

# Section 1 Photosynthesis Answer Key

**K Morrison**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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## **Table of Contents Section 1 Photosynthesis Answer Key**

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

5. Accessing Section 1 Photosynthesis Answer Key Free and Paid eBooks
  - Section 1 Photosynthesis Answer Key Public Domain eBooks
  - Section 1 Photosynthesis Answer Key eBook Subscription Services
  - Section 1 Photosynthesis Answer Key Budget-Friendly Options
6. Navigating Section 1 Photosynthesis Answer Key eBook Formats
  - ePub, PDF, MOBI, and More
  - Section 1 Photosynthesis Answer Key Compatibility with Devices
  - Section 1 Photosynthesis Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Section 1 Photosynthesis Answer Key
  - Highlighting and Note-Taking Section 1 Photosynthesis Answer Key
  - Interactive Elements Section 1 Photosynthesis Answer Key
8. Staying Engaged with Section 1 Photosynthesis Answer Key
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Section 1 Photosynthesis Answer Key
9. Balancing eBooks and Physical Books Section 1 Photosynthesis Answer Key
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Section 1 Photosynthesis Answer Key
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Section 1 Photosynthesis Answer Key
  - Setting Reading Goals Section 1 Photosynthesis Answer Key
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Section 1 Photosynthesis Answer Key
  - Fact-Checking eBook Content of Section 1 Photosynthesis 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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