

## 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.

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

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

- What are the reactants for photosynthesis?
- Reactants are also known as: (Circle one)
- What are the products of photosynthesis?
- Products are also known as: (Circle one)

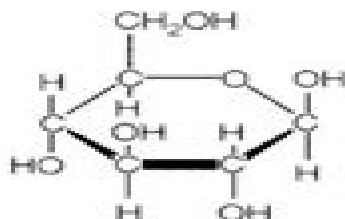
INPUTS

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.



- Count the number of Carbon (C) atoms in a molecule of glucose. \_\_\_\_\_
- Count the number of Hydrogen (H) atoms in a molecule of glucose. \_\_\_\_\_
- Count the number of Oxygen (O) atoms in a molecule of glucose. \_\_\_\_\_
- 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? \_\_\_\_\_

# Photosynthesis And Respiration Pogil Answer Key

**M Planty**



## **Photosynthesis And Respiration Pogil Answer Key:**

*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 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* William G. Hopkins, 2006 Follows the flow of sun energy in plants from photosynthesis through respiration Source other than the Library of Congress

**The Effect of Computer-assisted Instruction and Laboratory Experimentation on the Learning of Photosynthesis and Respiration in High School Biology** Marlo Dawn Wiltse, 2002      **Key Concepts** Rebecca L. Johnson, 2014      **Respiration and Photosynthesis** Donna Latham, 2009 A discussion of plants ability to change sunlight into energy with illustrations charts graphs and a timeline covering terms and concepts associated with photosynthesis food chains and ecosystems      A Unit on Photosynthesis and Cellular Respiration for Secondary Biology Students Kathy R. Pollock, 1998      The Relation of Photosynthesis to Respiration John Wolfgang Weigl, 1950      **Photosynthesis and Respiration Progress Report** J. Mayo, 1970      **Advances in Photosynthesis and Respiration**, 20??      Photosynthesis Alvin Silverstein, Virginia B. Silverstein, Laura Silverstein Nunn, 2007-09-01 Explains photosynthesis the process responsible for providing the material and energy for all living things and discusses such related issues as respiration the carbon cycle acid rain and the greenhouse effect      **Photosynthesis & Respiration** Cathrine M. Monson, 2001\*      **Photosynthesis and Respiration** Lisa Dannewitz Martineau, 2005      **The Relation of Quantum Requirement in Photosynthesis to Respiration** James A. Bassham, Kazuo Shibata, 1955      **Studies in Plant Respiration and Photosynthesis** Herman Augustus Spoehr, John Merritt McGee, 1923      **The Effect of Laboratory Experimentation Along with Graphical and Data Analysis on the Learning of Photosynthesis and Cellular Respiration in a High School Biology Classroom** Marie Lynn Jasper, 2007      *Photosynthesis* Herman Augustus Spoehr, 1926      *Interactions Between Photosynthesis and Respiration in Higher Plants* D. Graham, E. A. Chapman, 1979      **Quantitative Experiments on Photosynthesis and Respiration in Green Plants** S. M. Baker, 1913

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