

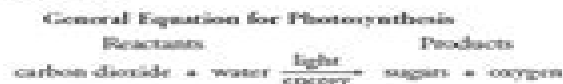
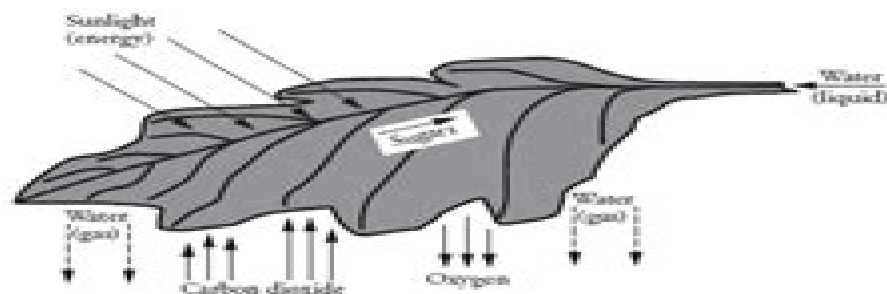
Photosynthesis & Cell Respiration POGIL

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.

- 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)

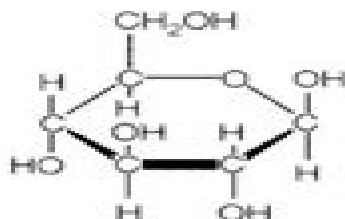
INPUTS

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 (CO₂) 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? _____

Pogil Photosynthesis And Respiration Answer Key

M Planty



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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 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
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 Ozbun,1964 *Appendix to Workbook 19* ,1990 *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 **Studies in Plant Respiration and Photosynthesis** Herman Augustus Spoehr,John Merritt McGee,1923

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web 140g plain flour 100g soft fresh white breadcrumbs 100g light muscovado sugar crumbled if it looks lumpy 3 large eggs 2 tbsp brandy or cognac plus extra to light the pudding 250g packet butter taken straight from the fridge for the brandy and ginger butter 175g unsalted butter softened grated zest of half an orange 5 tbsp icing sugar

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web ingredients yields 8 10 servings metric cups 150 grams currants 150 grams sultanas 150 grams roughly chopped prunes 175 millilitres pedro ximenez sherry 100 grams plain flour 125 grams fresh breadcrumbs 150 grams suet 150 grams dark brown muscovado sugar 1 teaspoon ground cinnamon $\frac{1}{4}$ teaspoon ground cloves