

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.



- List 3 inputs (things entering) for the leaf in Model 1.

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

- 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 ____

- Where does the carbon used to make glucose come from? _____

Photosynthesis And Respiration Pogil Worksheets

Lisa Dannewitz Martineau



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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 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 and Respiration** John William Marklewitz, 1995 **Energy for Life** Betty D. Allamong, Thomas Robert Mertens, 1976 *A Unit on Photosynthesis and Cellular Respiration for Secondary Biology Students* Kathy R. Pollock, 1998 *Chapter Resource 5 Photosynthesis/Cell Response Biology* Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004 Photosynthesis, Photorespiration, And Plant Productivity Israel Zelitch, 2012-12-02 Photosynthesis Photorespiration and Plant Productivity provides a basis for understanding the main factors concerned with regulating plant productivity in plant communities The book describes photosynthesis and other processes that affect the productivity of plants from the standpoint of enzyme chemistry chloroplasts leaf cells and single leaves Comprised of nine chapters the book covers the biochemical and photochemical aspects of photosynthesis respiration associated with photosynthetic tissues and photosynthesis and plant productivity in single leaves and in stands It provides illustrated and diagrammatic discussion and presents the concepts in outlined form to help readers understand the concepts efficiently Moreover this book explores the rates of enzymatic reactions and the detailed structure and function of chloroplasts and other organelles and their variability It explains the mechanism of photosynthetic electron transport and phosphorylation and the importance of diffusive resistances to carbon dioxide assimilation especially the role of stomata It also discusses the importance of dark respiration in diminishing productivity the differences in net photosynthesis that occur between many species and varieties and the influence of climate to photosynthetic reactions The book is an excellent reference for teachers as well as undergraduate and graduate students in biology plant physiology and agriculture Research professionals working on the disciplines of plant production and food supply will also find this book invaluable **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 **Photosynthesis and Respiration** Lisa Dannewitz Martineau, 2005 *Photosynthesis and Respiration Progress Report* J. Mayo, 1970 Key Concepts Rebecca L. Johnson, 2014 **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 *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

Advances in Photosynthesis and Respiration, 20?? **Photosynthesis & Respiration** Cathrine M. Monson, 2001* **Appendix to Workbook 19**, 1990 **Interactions Between Photosynthesis and Respiration in Higher Plants** D. Graham, E. A. Chapman, 1979 **Photosynthesis: Physiology and Metabolism** Richard C. Leegood, Thomas D. Sharkey, Susanne von Caemmerer, 2000-01-31 The principal aim of *Photosynthesis Physiology and Metabolism* is to provide final year undergraduates graduate students and researchers with an up to date and comprehensive overview of photosynthetic carbon metabolism in plants ranging from molecular to ecophysiological aspects The book examines how CO₂ is acquired by algae and by plants and is divided into three sections The first section concentrates on the pathways the Calvin Benson Bassham cycle and photorespiration with particular emphasis on the enzyme ribulose biphosphate carboxylase oxygenase Rubisco and the regulation of CO₂ fixation The second section deals with the fate of fixed carbon in chapters on the synthesis of products such as sucrose starch fructans and sugar alcohols and with the regulation of cellular partitioning of carbon including topics such as respiration and feedback regulation of photosynthesis by carbohydrates The last section concentrates on the various problems that plants face in taking up CO₂ from their environment and how CO₂ concentrating mechanisms operate in the algae and in plants with C₄ photosynthesis and Crassulacean Acid Metabolism The ecological significance of these mechanisms is also discussed **Studies in Plant Respiration and Photosynthesis** Herman Augustus Spoehr, John Merritt McGee, 1923 *Secondary Students' Understanding of Photosynthesis and Respiration in Plants* Filocha Haslam, 1987

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