

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 Packet Answers

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Photosynthesis And Respiration Pogil Packet Answers:

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 **Appendix to Workbook 19** , 1990 **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 *Key Concepts* Rebecca L. Johnson, 2014 **The Relation of Photosynthesis to Respiration** John Wolfgang Weigl, 1950 **Advances in Photosynthesis and Respiration** , 20?? 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 Progress Report J. Mayo, 1970 *Photosynthesis & Respiration* Cathrine M. Monson, 2001* **Photosynthesis and Respiration** Lisa Dannewitz Martineau, 2005 **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 *Interactions Between Photosynthesis and Respiration in Higher Plants* D. Graham, E. A. Chapman, 1979 **The Relation of Quantum Requirement in Photosynthesis to Respiration** James A. Bassham, Kazuo Shibata, 1955 **Quantitative Experiments on Photosynthesis and Respiration in Green Plants** S. M. Baker, 1913
 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

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