

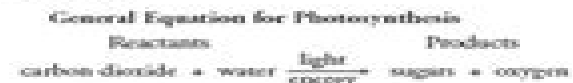
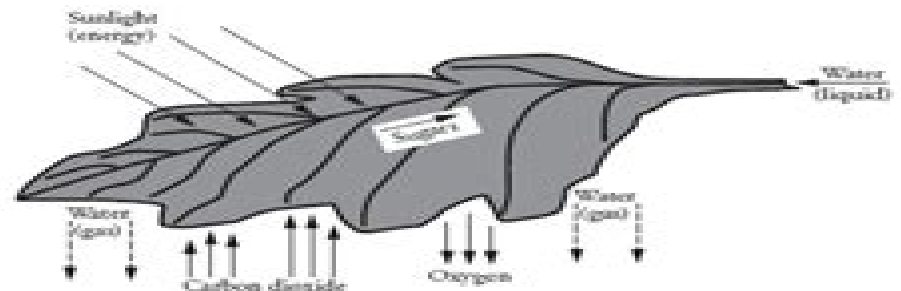
Photosynthesis & Cell Respiration POGIL

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)

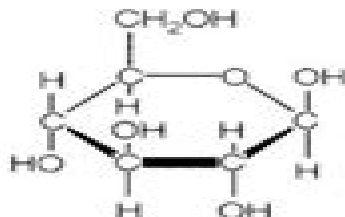
INPUTS

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? _____

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Eugene Rabinowitch



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Analytical Chemistry Juliette Lantz, Renée Cole, The POGIL Project, 2014-12-31 An essential guide to inquiry approach instrumental analysis Analytical Chemistry offers an essential guide to inquiry approach instrumental analysis collection The book focuses on more in depth coverage and information about an inquiry approach This authoritative guide reviews the basic principles and techniques Topics covered include method of standard the microscopic view of electrochemistry calculating cell potentials the BerriLambert atomic and molecular absorption processes vibrational modes mass spectra interpretation and much more *Primary Processes of Photosynthesis, Part 1* Gernot Renger, 2007-11-29 This volume forms part of a two volume set and is not available for individual purchase Please view the complete pack ISBN 978 0 85404 364 4 for purchase options *Photosynthesis* Eugene Rabinowitch, Govindjee, 1969 Photosynthesis the power plant and the chemical factory of life Overall chemistry of Photosynthesis Autotrophic and the heterotrophic ways of life Overall energetics of photosynthesis Solar energy and its utilization Energetics of photosynthesis a closer look Taking photosynthesis apart I the light and the dark stage II photochemical activities of chloroplasts and chlorophyll solutions Structure and composition of the photosynthetic apparatus The photosynthetic pigments Absorption of light and fate of excitation energy in plant cells Action spectrum and quantum yield of photosynthesis Energy transfer and energy migration in photosynthesis The two photochemical systems The red drop and the emerson effect Difference spectroscopy the role of the cytochromes P700 P690 plastoquinone and plastocyanin Fluorescence and the two pigment systems Separation of the two pigment systems The enzymatic paths from water to molecular oxygen and from carbon dioxide to carbohydrates *Photosynthesis and Related Processes: pt. 1. Spectroscopy and fluorescence of photosynthetic pigments. Kinetics of photosynthesis. p. 2. Kinetics of photosynthesis (continued). Addenda to volume 1 and volume 2, part 1* Eugene Rabinowitch, 1945 **Photosynthesis and Related Processes.v.1** E. I. Rabinowitch, 1945 Photosynthesis ... Vol. 1 E. I. Rabinowitch, 1945

Whispering the Secrets of Language: An Emotional Journey through **1photosynthesis S Answers Pogil**

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