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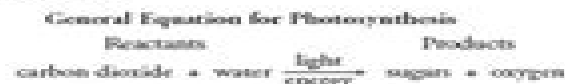
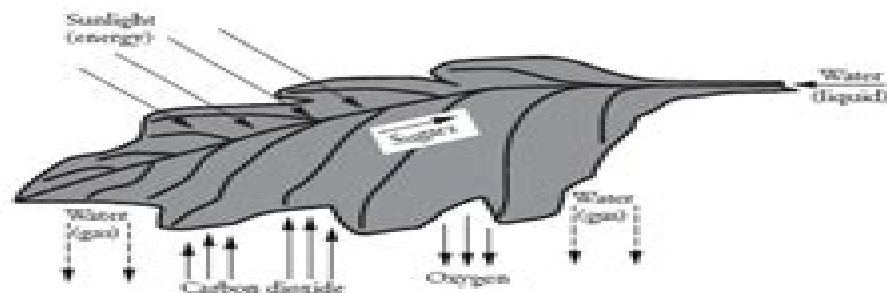
## Photosynthesis & Cell Respiration POGIL

*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)

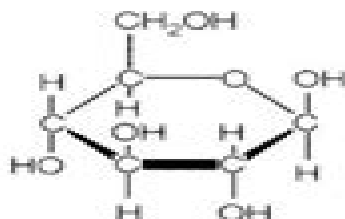
INPUTS

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 (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** \_\_\_\_

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

# Pogil Photosynthesis And Respiration Answers

**Betty D. Allamong, Thomas Robert  
Mertens**



## **Pogil Photosynthesis And Respiration Answers:**

**Energy for Life** Betty D. Allamong, Thomas Robert Mertens, 1976  
Hopkins, 2006 Follows the flow of sun energy in plants from photosynthesis through respiration Source other than the Library of Congress  
**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  
**Photosynthesis, Respiration, and Climate Change** Katie M. Becklin, Joy K. Ward, Danielle A. Way, 2021-06-01 Changes in atmospheric carbon dioxide concentrations and global climate conditions have altered photosynthesis and plant respiration across both geologic and contemporary time scales Understanding climate change effects on plant carbon dynamics is critical for predicting plant responses to future growing conditions Furthermore demand for biofuel fibre and food production is rapidly increasing with the ever expanding global human population and our ability to meet these demands is exacerbated by climate change This volume integrates physiological ecological and evolutionary perspectives on photosynthesis and respiration responses to climate change We explore this topic in the context of modeling plant responses to climate including physiological mechanisms that constrain carbon assimilation and the potential for plants to acclimate to rising carbon dioxide concentration warming temperatures and drought Additional chapters contrast climate change responses in natural and agricultural ecosystems where differences in climate sensitivity between different photosynthetic pathways can influence community and ecosystem processes Evolutionary studies over past and current time scales provide further insight into evolutionary changes in photosynthetic traits the emergence of novel plant strategies and the potential for rapid evolutionary responses to future climate conditions Finally we discuss novel approaches to engineering photosynthesis and photorespiration to improve plant productivity for the

future The overall goals for this volume are to highlight recent advances in photosynthesis and respiration research and to identify key challenges to understanding and scaling plant physiological responses to climate change The integrated perspectives and broad scope of research make this volume an excellent resource for both students and researchers in many areas of plant science including plant physiology ecology evolution climate change and biotechnology For this volume 37 experts contributed chapters that span modeling empirical and applied research on photosynthesis and respiration responses to climate change Authors represent the following seven countries Australia 6 Canada 9 England 5 Germany 2 Spain 3 and the United States 12

**A Unit on Photosynthesis and Cellular Respiration for Secondary Biology Students** Kathy R. Pollock,1998

**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

**The Relation of Photosynthesis to Respiration** John Wolfgang Weigl,1950

**Advances in Photosynthesis and Respiration** ,20?? *Photosynthesis: Physiology and Metabolism* Richard C. Leegood,Thomas D. Sharkey,Susanne von Caemmerer,2006-04-11 Photosynthesis Physiology and Metabolism is the we have concentrated on the acquisition and ninth volume in theseries Advances in Photosynthesis metabolism of carbon However a full understanding Series Editor Govindjee Several volumes in this of reactions involved in the conversion of to series have dealt with molecular and biophysical sugars requires an integrated view of metabolism aspects of photosynthesis in the bacteria algae and We have therefore commissioned international cyanobacteria focussing largely on what have been authorities to write chapters on for example traditionally though inaccurately termed the light interactionsbetween carbon and nitrogen metabolism reactions Volume 1 The Molecular Biology of on respiration in photosynthetic tissues and on the Cyanobacteria Volume2 AnoxygenicPhotosynthetic control of gene expression by metabolism Photo Bacteria Volume 3 Biophysical Techniques in synthetic carbon assimilation is also one of the most Photosynthesis and Volume 7 The Molecular Biology rapid metabolic processes that occurs in plant cells of the Chloroplasts and Mitochondria in Chlamy and therefore has to be considered in relation to domonas Volume 4 dealt with Oxygenic Photo transport whether it be the initial uptake of carbon synthesis The Light Reactions and volume 5 with intracellular transport between organelles inter Photosynthesis and the Environment whereas the cellular transport as occurs in plants or transport structure and function of lipids in photosynthesis of photosynthates through and out of the leaf All was covered in Volume 6 of this series Lipids in these aspects of transport are also covered in the Photosynthesis Structure Function and Genetics book

*Photosynthesis and Respiration Progress Report* J. Mayo,1970

**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\*

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