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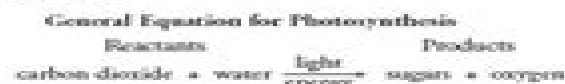
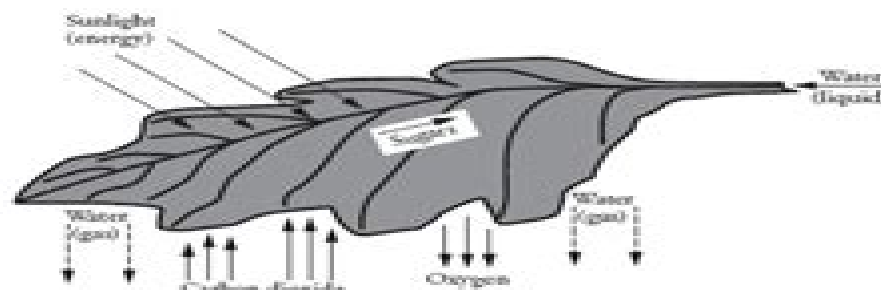
## Photosynthesis & Cell Respiration POGIL

*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)

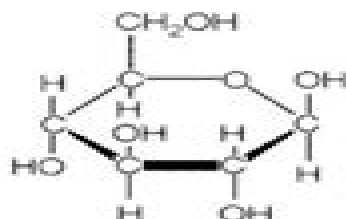
INPUTS

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? \_\_\_\_\_

# Photosynthesis And Respiration Pogil Answers Key

**Cathrine M. Monson**



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

Energy for Life Betty D. Allamong, Thomas Robert Mertens, 1976      Photosynthesis and Respiration John William Marklewitz, 1995      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      *A Unit on Photosynthesis and Cellular Respiration for Secondary Biology Students* Kathy R. Pollock, 1998      Photosynthesis, Respiration, and Climate Change Katie M. Becklin, 2021 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      **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

**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 and Respiration Progress Report* J. Mayo,1970 **Photosynthesis and Respiration** Lisa Dannewitz Martineau,2005 **Plant Respiration** Hans Lambers,Universitat Illes Balears,2005-07-05 Respiration in plants as in all living organisms is essential to provide metabolic energy and carbon skeletons for growth and maintenance As such respiration is an essential component of a plant s carbon budget Depending on species and environmental conditions it consumes 25 75% of all the carbohydrates produced in photosynthesis even more at extremely slow growth rates Respiration in plants can also proceed in a manner that produces neither metabolic energy nor carbon skeletons but heat This type of respiration involves the cyanide resistant alternative oxidase it is unique to plants and resides in the mitochondria The activity of this alternative pathway can be measured based on a difference in fractionation of oxygen isotopes between the cytochrome and the alternative oxidase Heat production is important in some flowers to attract pollinators however the alternative oxidase also plays a major role in leaves and roots of most plants A common thread throughout this volume is to link respiration including alternative oxidase activity to plant functioning in different environments **Photosynthesis & Respiration**[ Cathrine M. Monson,2001\* Appendix to Workbook 19 ,1990

**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 Path of Carbon in Photosynthesis* A Benson (A.),Melvin Calvin,1949 Interactions Between Photosynthesis and Respiration in Higher Plants D. Graham,E. A.

Chapman,1979      **The Oxygen Cycle** Aiden Feynman,AI,2025-02-12 The Oxygen Cycle explores the essential circulation of oxygen a process underpinning life on Earth It examines the interconnected mechanisms of photosynthesis respiration and decomposition which collectively maintain the ecological balance Photosynthesis carried out by plants and algae converts sunlight and carbon dioxide into energy releasing oxygen Conversely respiration uses oxygen to break down organic matter for energy This cycle s stability is crucial ensuring the oxygen levels necessary to sustain diverse ecosystems from microscopic organisms to vast forests The book adopts an interdisciplinary approach integrating biology ecology and atmospheric science to provide a comprehensive understanding It highlights the impact of human activities such as deforestation and industrial emissions on the oxygen cycle By analyzing long term atmospheric monitoring data and ecological surveys the book demonstrates how disruptions in one part of the cycle can cascade through entire ecosystems The book progresses by first defining key terms then delving into photosynthesis and respiration followed by an exploration of human impacts and potential solutions for mitigating these effects

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