

Name(s): _____ Period: _____ Date: _____

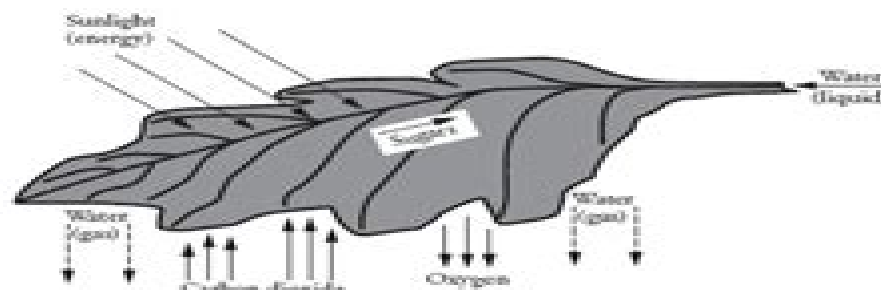
Photosynthesis & Cell Respiration POGIL

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.



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.

a. What are the reactants for photosynthesis? _____

b. Reactants are also known as: (Circle one) _____

c. What are the products of photosynthesis? _____

d. Products are also known as: (Circle one) _____

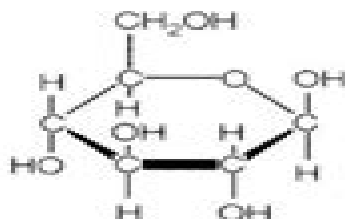
INPUTS

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.



4. Count the number of Carbon (C) atoms in a molecule of glucose. _____

5. Count the number of Hydrogen (H) atoms in a molecule of glucose. _____

6. Count the number of Oxygen (O) atoms in a molecule of glucose. _____

7. 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? _____

Photosynthesis And Respiration Pogil Project Answer Key

Jimmy Lee Ozbun



Photosynthesis And Respiration Pogil Project Answer Key:

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 **Key Concepts** Rebecca L. Johnson, 2014 The Effect of Computer-assisted Instruction and Laboratory Experimentation on the Learning of Photosynthesis and Respiration in High School Biology Marlo Dawn Wiltse, 2002 **A Unit on Photosynthesis and Cellular Respiration for Secondary Biology Students** Kathy R. Pollock, 1998 **Photosynthesis and Respiration Progress Report** J. Mayo, 1970 **Photosynthesis and Respiration** Lisa Dannewitz Martineau, 2005 **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 **Advances in Photosynthesis and Respiration**, 20??

Photosynthesis & Respiration Cathrine M. Monson, 2001* **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 **Appendix to Workbook 19**, 1990 *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

Quantitative Experiments on Photosynthesis and Respiration in Green Plants S. M. Baker, 1913
Photosynthesis Thomas Bell, 2014-06-24 If your child is struggling with science then this book is for you the short book covers the topic and also contains 5 science experiments to work with and ten quiz questions This subject comes from the book Sixth Grade Science For Home School or Extra Practice it more thoroughly covers more third grade topics to help your child get a better understanding of sixth grade math If you purchased that book or plan to purchase that book do not purchase this as the problems are the same **Secondary Students' Understanding of Photosynthesis and**

Respiration in Plants Filocha Haslam,1987
Microecosystems Robert John Beyers,1965
Jimmy Lee Ozbun,1964

The Pattern of Photosynthesis and Respiration in Laboratory
Effect of Light and Potassium Nutrition on Photosynthesis and Respiration

The Top Books of the Year Photosynthesis And Respiration Pogil Project Answer Key The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the fascinating narratives that have charmed audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens' "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and suspenseful novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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