

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 Cellular Respiration Pogil Answer Key

B Lingard



Photosynthesis And Cellular Respiration Pogil Answer Key:

A Unit on Photosynthesis and Cellular Respiration for Secondary Biology Students Kathy R. Pollock,1998
Energy for Life Betty D. Allamong,Thomas Robert Mertens,1976 **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 **Appendix to Workbook 19** ,1990 *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 Workbook 19 Ntiyiso Shingwenyana,Turret Correspondence College (Johannesburg),1987 The Effect of Computer-assisted Instruction and Laboratory Experimentation on the Learning of Photosynthesis and Respiration in High School Biology Marlo Dawn Wiltse,2002 **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 and Respiration John William Marklewitz,1995 **Energetics of the Photosynthesizing Plant Cell** Leon Natanovich Bell,1985

Photosynthesis And Cellular Respiration Pogil Answer Key Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Photosynthesis And Cellular Respiration Pogil Answer Key**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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Table of Contents Photosynthesis And Cellular Respiration Pogil Answer Key

1. Understanding the eBook Photosynthesis And Cellular Respiration Pogil Answer Key
 - The Rise of Digital Reading Photosynthesis And Cellular Respiration Pogil Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Photosynthesis And Cellular Respiration Pogil Answer Key
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Photosynthesis And Cellular Respiration Pogil Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Photosynthesis And Cellular Respiration Pogil Answer Key
 - Personalized Recommendations
 - Photosynthesis And Cellular Respiration Pogil Answer Key User Reviews and Ratings
 - Photosynthesis And Cellular Respiration Pogil Answer Key and Bestseller Lists

5. Accessing Photosynthesis And Cellular Respiration Pogil Answer Key Free and Paid eBooks
 - Photosynthesis And Cellular Respiration Pogil Answer Key Public Domain eBooks
 - Photosynthesis And Cellular Respiration Pogil Answer Key eBook Subscription Services
 - Photosynthesis And Cellular Respiration Pogil Answer Key Budget-Friendly Options
6. Navigating Photosynthesis And Cellular Respiration Pogil Answer Key eBook Formats
 - ePub, PDF, MOBI, and More
 - Photosynthesis And Cellular Respiration Pogil Answer Key Compatibility with Devices
 - Photosynthesis And Cellular Respiration Pogil Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Photosynthesis And Cellular Respiration Pogil Answer Key
 - Highlighting and Note-Taking Photosynthesis And Cellular Respiration Pogil Answer Key
 - Interactive Elements Photosynthesis And Cellular Respiration Pogil Answer Key
8. Staying Engaged with Photosynthesis And Cellular Respiration Pogil Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Photosynthesis And Cellular Respiration Pogil Answer Key
9. Balancing eBooks and Physical Books Photosynthesis And Cellular Respiration Pogil Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Photosynthesis And Cellular Respiration Pogil Answer Key
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Photosynthesis And Cellular Respiration Pogil Answer Key
 - Setting Reading Goals Photosynthesis And Cellular Respiration Pogil Answer Key
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Photosynthesis And Cellular Respiration Pogil Answer Key
 - Fact-Checking eBook Content of Photosynthesis And Cellular Respiration Pogil Answer Key
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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