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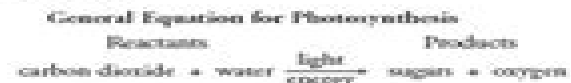
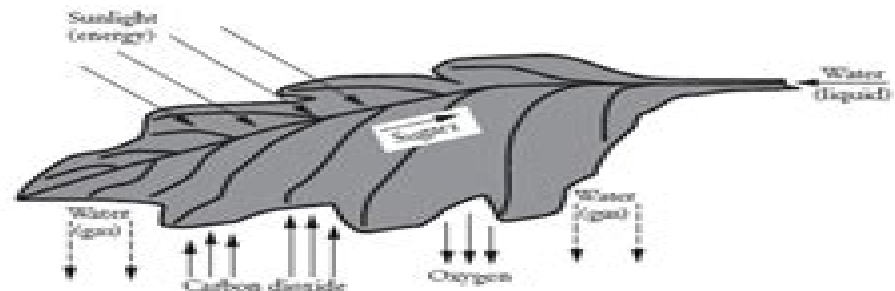
Photosynthesis & Cell Respiration POGIL

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.



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)

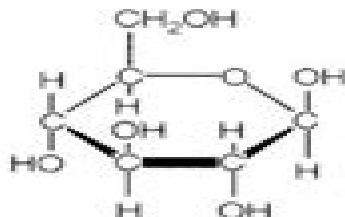
INPUTS

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 Answers Muxinkm

Kathleen Armour



Photosynthesis And Respiration Pogil Answers Muxinkm:

Decoding **Photosynthesis And Respiration Pogil Answers Muxinkm**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Photosynthesis And Respiration Pogil Answers Muxinkm**," a mesmerizing literary creation penned with a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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