

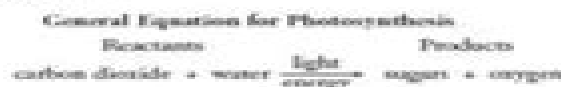
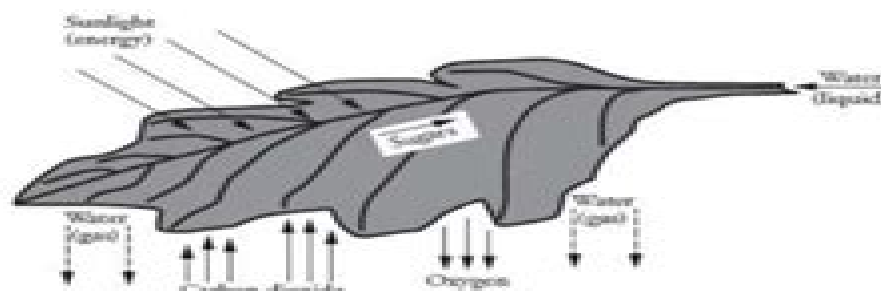
Photosynthesis & Cell Respiration POGIL

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.

- 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)

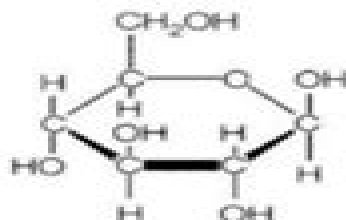
INPUTS

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** ____

8. Where does the carbon used to make glucose come from? _____

Photosynthesis Food For A Plant Pogil Answers

Donna Latham



Photosynthesis Food For A Plant Pogil Answers:

Photosynthesis Bobbie Kalman, 2005-03-01 For use in schools and libraries only Describes the history and behavior of plants and focuses on how energy is produced **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 Photosynthesis Alvin Silverstein, Virginia B. Silverstein, Laura Silverstein Nunn, 1998 What is the most important scientific process that takes place on Earth Many scientists would answer photosynthesis This process has made our planet livable for millions of species by providing the materials and the energy that Earth s creatures need Well known science writers Alvin and Virginia Silverstein and Laura Silverstein Nunn explain how photosynthesis works how living creatures on our planet use it and how it relates to the greenhouse effect and global warming The authors also reveal current research on photosynthesis showing ways that scientists can improve food and its availability through genetic engineering increase energy sources and fight fatal diseases such as cancer Book jacket

Photosynthesis Jerome Laib Rosenberg, 1965 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 Torrey Maloof, 2015 Have you ever seen a tree at the grocery store buying dinner Probably not Plants create their food in a very different way They make their own food through photosynthesis **Current challenges in photosynthesis: From natural to artificial** Harvey J.M. Hou, Suleyman I. Allakhverdiev, Mohammad Mahdi Najafpour, Govindjee, 2014-10-03 Jules Verne 1828 1905 author of *Around the World in Eighty Days* 1873 and *Journey to the Center of the Earth* 1864 wrote in 1875 I believe that water will one day be used as a fuel because the hydrogen and oxygen

which constitute it used separately or together will furnish an inexhaustible source of heat and light I therefore believe that when coal oil deposits are oxidised we will heat ourselves by means of water Water is the fuel of the future Solar energy is the only renewable energy source that has sufficient capacity for the global energy need it is the only one that can address the issues of energy crisis and global climate change A vast amount of solar energy is harvested and stored via photosynthesis in plants algae and cyanobacteria since over 3 billion years Today it is estimated that photosynthesis produces more than 100 billion tons of dry biomass annually which would be equivalent to a hundred times the weight of the total human population on our planet at the present time and equal to a global energy storage rate of about 100 TW The solar power is the most abundant source of renewable energy and oxygenic photosynthesis uses this energy to power the planet using the amazing reaction of water splitting During water splitting driven ultimately by sunlight oxygen is released into the atmosphere and this along with food production by photosynthesis supports life on our earth The other product of water oxidation is hydrogen proton and electron This hydrogen is not normally released into the atmosphere as hydrogen gas but combined with carbon dioxide to make high energy containing organic molecules When we burn fuels we combine these organic molecules with oxygen The design of new solar energy systems must adhere to the same principle as that of natural photosynthesis For us to manipulate it to our benefit it is imperative that we completely understand the basic processes of natural photosynthesis and chemical conversion such as light harvesting excitation energy transfer electron transfer ion transport and carbon fixation Equally important we must exploit application of this knowledge to the development of fully synthetic and or hybrid devices Understanding of photosynthetic reactions is not only a satisfying intellectual pursuit but it is important for improving agricultural yields and for developing new solar technologies Today we have considerable knowledge of the working of photosynthesis and its photosystems including the water oxidation reaction Recent advances towards the understanding of the structure and the mechanism of the natural photosynthetic systems are being made at the molecular level To mimic natural photosynthesis inorganic chemists organic chemists electrochemists material scientists biochemists biophysicists and plant biologists must work together and only then significant progress in harnessing energy via artificial photosynthesis will be possible This Research Topic provides recent advances of our understanding of photosynthesis gives to our readers recent information on photosynthesis research and summarizes the characteristics of the natural system from the standpoint of what we could learn from it to produce an efficient artificial system i e from the natural to the artificial This topic is intended to include exciting breakthroughs possible limitations and open questions in the frontiers in photosynthesis research [Photosynthesis](#) Frederick Linder Fitzpatrick,1965 **Photosynthesis** Y. P. Abrol,P. Mohanty,1993-05-31 **All About Photosynthesis** Monika Davies,2024-09-16 Do you know how plants use carbon dioxide water and sunlight to make their own food Learn about photosynthesis with this STEAM reader Created in collaboration with the Smithsonian Institution this title boosts secondary students literacy skills **Handbook of Photosynthesis** Mohammad

Pessarakli, 2005-03-29 Quite naturally photosynthesis has achieved massive amounts of attention in recent years. Aside from being the most spectacular physiological process in plant growth, it is actually the key to our dealing with the potentially cataclysmic accumulation of carbon dioxide in the earth's atmosphere. Unfortunately, while information is plentiful, all this attention has resulted in a scattered database on photosynthesis with no contemporary starting point at least until now. With the second edition of the Handbook of Photosynthesis, Mohammad Pessarakli once again fills the need for an authoritative and balanced resource by assembling a team of experts from across the globe. Together they have created a comprehensive reference that in a single volume includes important background information as well as the most recent research findings on photosynthesis. Completely Revised with Several New Chapters. The handbook is a completely updated reworking of the critically acclaimed first edition. Details all of the photosynthetic factors and processes under both normal and stressful conditions covering lower and higher plants as well as related biochemistry and plant molecular biology. Divided into fourteen sections for ease of reference with nearly 8000 bibliographic citations, the handbook contains authoritative contributions from over 80 scientists. It includes approximately 500 drawings, photographs, tables, and equations, all designed to reinforce and clarify important text material.

Photosynthesis, Productivity, and Environmental Stress Parvaiz Ahmad, Mohammad Abass Ahanger, Mohammed Nasser Alyemeni, Pravej Alam, 2019-09-19 A guide to environmental fluctuations that examines photosynthesis under both controlled and stressed conditions. *Photosynthesis Productivity and Environmental Stress* is a much needed guide that explores the topics related to photosynthesis both terrestrial and aquatic and puts the focus on the basic effect of environmental fluctuations. The authors, noted experts on the topic, discuss photosynthesis under both controlled and stressed conditions and review new techniques for mitigating stressors including methods such as transgenics, proteomics, genomics, ionomics, metabolomics, micromics, and more. In order to feed our burgeoning world population, it is vital that we must increase food production. Photosynthesis is directly related to plant growth and crop production, and any fluctuation in the photosynthetic activity imposes great threat to crop productivity. Due to the environmental fluctuations, plants are often exposed to the different environmental stresses that cause decreased photosynthetic rate and problems in the plant growth and development. This important book addresses this topic and covers topics related to terrestrial and aquatic photosynthesis. Highlights the basic effect of environmental fluctuations. Explores common stressors such as drought, salinity, alkalinity, temperature, UV radiations, oxygen deficiency, and more. Contains methods and techniques for improving photosynthetic efficiency for greater crop yield. Written for biologists and environmentalists. *Photosynthesis Productivity and Environmental Stress* offers an overview of the stressors affecting photosynthesis and includes possible solutions for improved crop production.

Handbook of Photosynthesis, Second Edition Mohammad Pessarakli, 1996-09-09 Details all of the photosynthetic factors and processes under both normal and stressful conditions covering lower and higher plants as well as related biochemistry and plant molecular biology. Contains

authoritative contributions from over 125 experts in the field from 28 countries and includes almost 500 drawings
photographs micrographs tables and equations reinforcing and clarifying important text material **The Mechanism of**
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