Photosynthesis

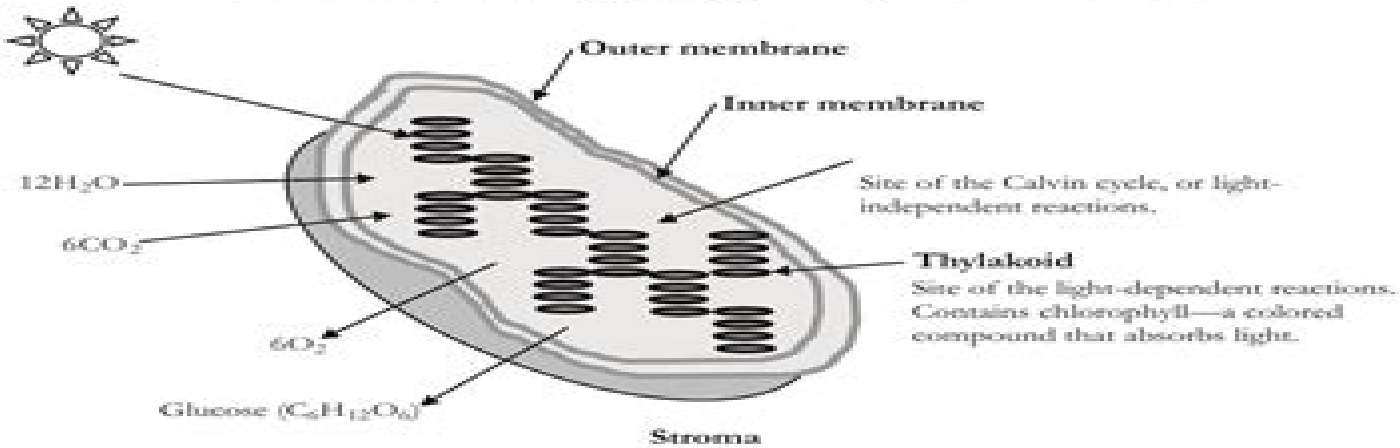
How do light-dependent and light-independent reactions provide food for a plant?

Why?

Plants are the original solar panels. Through photosynthesis a plant is able to convert electromagnetic (light) energy into chemical energy. This energy is used not only to keep the plant alive, but also to sustain all creatures that rely on the plant for food and shelter. Plants and photosynthetic algae are also the source of all oxygen on Earth, allowing the inhabitants of Earth to benefit from our most plentiful renewable energy resource.

Model 1 – Chloroplast

$$6CO_2 + 12H_2O + \text{sunlight energy} \longrightarrow C_6H_{12}O_6 + 6O_2 + 6H_2O$$



1. Consider the organelle illustrated in Model 1.
   a. What is the name of this organelle?

   A chloroplast

   b. Is this organelle more likely to be found in animal cells or plant cells?

   Plant cell

2. The structures inside the organelle in Model 1 are called thylakoids. What compound necessary for photosynthesis is contained in the thylakoids?

Chlorophyll

Photosynthesis Pogil Answer

Christine Zuchora-Walske

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Analytical Chemistry Juliette Lantz,Renée Cole,The POGIL Project,2014-12-31 An essential guide to inquiry approach instrumental analysis Analytical Chemistry offers an essential guide to inquiry approach instrumental analysis collection The book focuses on more in depth coverage and information about an inquiry approach This authoritative guide reviews the basic principles and techniques Topics covered include method of standard the microscopic view of electrochemistry calculating cell potentials the BerriLambert atomic and molecular absorption processes vibrational modes mass spectra interpretation and much more Photosynthesis Eugene Rabinowitch,Govindjee,1969 Photosynthesis the power plant and the chemical factory of life Overall chemistry of Photosynthesis Autotrophic and the heterotrophic ways of life Overall energetics of photosynthesis Solar energy and its utilization Energetics of photosynthesis a closer look Taking photosynthesis apart I the light and the dark stage II photochemical activities of chloroplasts and chlorophyll solutions Structure and composition of the photosynthetic apparatus The photosynthetic pigments Absorption of light and fate of excitation energy in plant cells Action spectrum and quantum yield of photosynthesis Energy transfer and energy migration in photosynthesis The two photochemical systems The red drop and the emerson effect Difference spectroscopy the role of the cytochromes P700 P690 plastoquinone and plastocyanin Fluorescence and the two pigment systems Separation of the two pigment systems The enzymatic paths from water to molecular oxygen and from carbon dioxide to carbohydrates *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 *Photosynthesis* J. Amesz,1987-07-01 Photosynthesis is an active area of research in which many exciting developments have taken place in the last few years This book gives an overview of the present understanding of all areas of molecular processes of photosynthesis It is based on the international literature available in the summer of 1986 and much unpublished material The new material contained in this book together with a basic framework of established concepts provide a useful source of reference on the biochemical and biophysical aspects of photosynthesis in plants and bacteria The book is written by specialists in the various areas of photosynthesis and is useful both for workers in these areas as a source of specialized information as well as for non photosynthesists who want to become informed about recent developments and basic concepts in this area Photosynthesis Robert M. Devlin,Allen V. Barker,1971

Photosynthesis: Solar Energy For Life Dmitry Shevela,Lars Olof Bjorn,Govindjee,2018-11-07 Photosynthesis has been an important field of research for more than a century but the present concerns about energy environment and climate have greatly intensified interest in and research on this topic Research has progressed rapidly in recent years and this book is an interesting read for an audience who is concerned with various ways of harnessing solar energy Our understanding of photosynthesis can now be said to have reached encyclopedic dimensions There have been in the past many good books at

various levels Our book is expected to fulfill the needs of advanced undergraduate and beginning graduate students in branches of biology biochemistry biophysics and bioengineering because photosynthesis is the basis of future advances in producing more food more biomass more fuel and new chemicals for our expanding global human population Further the basics of photosynthesis are and will be used not only for the above but in artificial photosynthesis an important emerging field where chemists researchers and engineers of solar energy systems will play a major role **Photosynthesis** R.P. Gregory,2012-12-06 Photosynthesis the capture of light energy by living organisms is a simple enough concept but its investigation draws on the resources of disciplines from all fields of science The aim of this text is to provide a clear stimulating and essentially affordable coverage for undergraduate students of biology The activity of science is debate and practical experiment its product is a body of propositions which at any given time reflects the judgment and prejudices of those taking part The value of a proposition is related to the conceivable alternatives and writing it down without its context creates the false impression that science progresses by compilation of an increasing list of absolute truths It does not the facts and figures pres ented in the following pages have no intrinsic value unless they can be used by the reader to support an argument or point of view In short the reader is urged to respond So what to every item Secondly ideas like other foods should be date stamped science is inseparable from its history I have set out time charts to represent the evolution of our understanding in certain areas I have assumed that the reader is pursuing a course with a content of biochemistry microbiology and plant science or has access to basic texts I have assumed also that common methods such as spectrophotometry chromatography and electrophoresis as well as the techniques of mol ecular biology will be either part of the same course or in active use nearby *Photosynthesis* Christine Zuchora-Walske,2014-01-01 Life on Earth is endlessly amazing and complex Learn about photosynthesis with well researched clearly written informational text primary sources with accompanying questions charts graphs diagrams timelines and maps multiple prompts and more Aligned to Common Core Standards and correlated to state standards Core Library is an imprint of Abdo Publishing a division of ABDO

Photosynthesis: Photoreactions to Plant Productivity Y.P. Abrol,P. Mohanty,Govindjee,2012-12-06 All biomass is derived from photosynthesis This provides us with food fuel as well as fibre This process involves conversion of solar energy via photochemical reactions into chemical energy In plants and cyanobacteria carbon dioxide and water are converted into carbohydrates and oxygen It is the best studied research area of plant biology We expect that this area will assume much greater importance in the future in view of the depleting resources ofthe Earth s fuel supply Furthermore we believe that the next large increase in plant productivity will come from applications of the newer findings about photosynthetic process especially through manipulation by genetic engineering The current book covers an integrated range of subjects within the general field of photosynthesis It is authored by international scientists from several countries Australia Canada France India Israel Japan Netherlands Russia Spain UK and USA It begins with a discussion of the genetic potential and the expression of

the chloroplast genome that is responsible for several key proteins involved in the electron transport processes leading to O evolution proton release and the production of 2 NADPH and A TP needed for CO fixation The section on photosystems discusses 2 how photosystem I functions to produce NADPH and how photosystem II oxidizes water and releases protons through an oxygen clock and how intermediates between the two photosystems are produced involving a two electron gate

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