

# Chapter 8: Photosynthesis

## Photosynthesis summary:

What is the point of photosynthesis?

Converts light energy to chemical energy, to fuel the organism

Is photosynthesis a catabolic or anabolic process? Why. (is it exergonic or endergonic?)

Anabolic Process (Endergonic) because it builds up sugars (glucose) out of smaller molecules

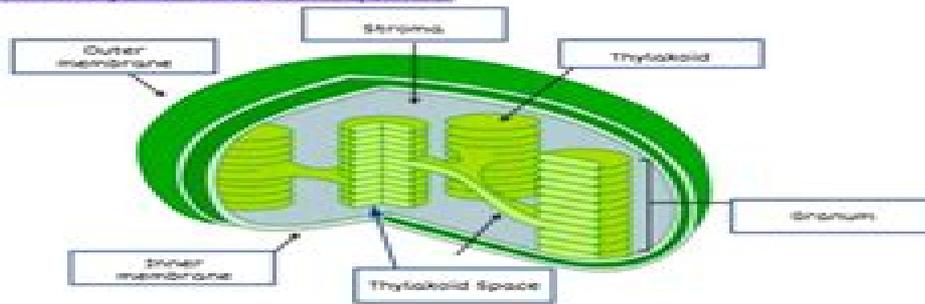
What is the chemical equation of photosynthesis?



What is oxidized what is reduced?

$\text{CO}_2$  Reduced into glucose, Water oxidized into  $\text{O}_2$

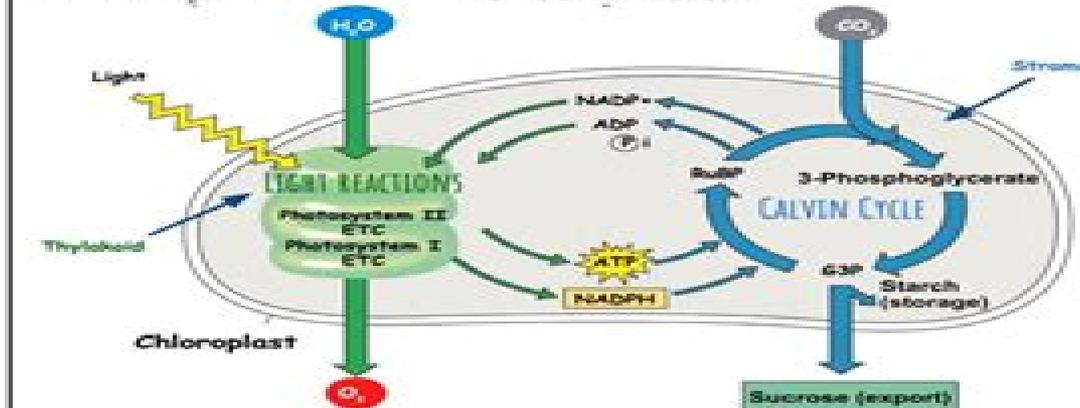
## Anatomy of the chloroplast:



## Photosynthesis overall:

the dark reactions. Can these reactions actually occur without the presence of light?

## PHOTOSYNTHESIS



No, because the calvin cycle needs ATP and NADPH which are produced from light reactions, so the calvin cycle needs light to work indirectly

# Chapter 8 Photosynthesis Flow Chart

**Peipei Pang**



## Chapter 8 Photosynthesis Flow Chart:

Bio-Based Polymers and Composites Richard Wool, Xiuzhi Susan Sun, 2011-08-30 Bio Based Polymers and Composites is the first book systematically describing the green engineering chemistry and manufacture of biobased polymers and composites derived from plants This book gives a thorough introduction to bio based material resources availability sustainability biobased polymer formation extraction and refining technologies and the need for integrated research and multi disciplinary working teams It provides an in depth description of adhesives resins plastics and composites derived from plant oils proteins starches and natural fibers in terms of structures properties manufacturing and product performance This is an excellent book for scientists engineers graduate students and industrial researchers in the field of bio based materials First book describing the utilization of crops to make high performance plastics adhesives and composites Interdisciplinary approach to the subject integrating genetic engineering plant science food science chemistry physics nano technology and composite manufacturing Explains how to make green materials at low cost from soyoil proteins starch natural fibers recycled newspapers chicken feathers and waste agricultural by products

**Biology, Science and Life**  
Wallace, Tietjen, 1996 Excel HSC Biology Diane Alford, Jennifer Hill, 2008 *EBOOK: Biology* Peter Raven, George Johnson, Kenneth Mason, Jonathan Losos, Susan Singer, 2013-02-16 Committed to Excellence in the Landmark Tenth Edition This edition continues the evolution of Raven Johnson s Biology The author team is committed to continually improving the text keeping the student and learning foremost We have integrated new pedagogical features to expand the students learning process and enhance their experience in the ebook This latest edition of the text maintains the clear accessible and engaging writing style of past editions with the solid framework of pedagogy that highlights an emphasis on evolution and scientific inquiry that have made this a leading textbook for students majoring in biology and have been enhanced in this landmark Tenth edition This emphasis on the organizing power of evolution is combined with an integration of the importance of cellular molecular biology and genomics to offer our readers a text that is student friendly and current Our author team is committed to producing the best possible text for both student and faculty The lead author Kenneth Mason University of Iowa has taught majors biology at three different major public universities for more than fifteen years Jonathan Losos Harvard University is at the cutting edge of evolutionary biology research and Susan Singer Carleton College has been involved in science education policy issues on a national level All three authors bring varied instructional and content expertise to the tenth edition of Biology

**Science Interactions** Robert W. Avakian, 1995-07-17 **Caring Hearts and Critical Minds** Steven Wolk, 2013 Wolk demonstrates how to integrate inquiry learning exciting and contemporary literature and teaching for social responsibility across the curriculum He takes teachers step by step through the process of designing an inquiry based literature unit and then provides five full units used in real middle grade classrooms Featuring a remarkable range of recommended resources and hundreds of novels from across the literary genres Caring Hearts Critical Minds gives teachers

a blueprint for creating dynamic units with rigorous lessons about topics kids care about from media and the environment to personal happiness and global poverty Wolk shows teachers how to find stimulating real world complex texts called for in the Common Core State Standards and integrate them into literature units Publisher s website [Operation of Wastewater Treatment Plants](#) ,2008 **Harcourt Science: Life science, [grade] 3, units A and B, teacher's ed** ,2000

**Astrobiology** Jonathan Irving Lunine,2005 This work is aimed at the upper level astrobiology course and places a strong emphasis on the astronomy perspective **Teaching Learners of English in Mainstream Classrooms (K-8)** Linda New Levine,Mary Lou McCloskey,2009 Teaching Learners of English in Mainstream Classrooms is a unique resource designed to help K 8 classroom teachers integrate language learning into the content curriculum This book helps teachers teach their grade level curriculum even though they may have English language learners in their classrooms By using the strategies provided teachers can promote content achievement for all of their students Specifically written for content teachers Linda New Levine and Mary Lou McCloskey s clear and friendly writing style emphasizes practical application of known second language learning principles The authors offer classroom teachers practical strategies and tools to integrate content and language learning accelerating the academic achievement of their students Techniques for developing reading writing and speaking skills in the content areas are also emphasized **DAT: Dental Admissions Test: Includes 3 Full Length Practice Tests + Online Access to Video Tutorials** Barron's Educational Series,Joseph DiRienzo,John J. Ference,Nicole D. Cornell,Edwin H. Hines,John Swartwood,2018-05-15 This brand new manual prepares dental school applicants across the United States and Canada to pass the required admissions test It features Three full length model tests including a diagnostic test All answers explained in detail Access to video tutorials from the authors and more Test takers will also find thorough reviews of all DAT test topics a general survey of the natural sciences including biology chemistry and organic chemistry as well as testing for perceptual ability reading comprehension and quantitative reasoning ONLINE PRACTICE TEST Students will also get access to one additional full length online DAT test with all questions answered and explained This online exam can be easily accessed by smartphone tablet or computer **Introduction to Sustainability** Nolberto Munier,2006-01-05 Sustainability relates with Economics Society and Environment However one common fact that links them all is the generation of waste This chapter is divided into two The first part analyses the current generation of waste as well as its treatment The second intends to establish policies for the future treatment of waste or better yet for ceasing the generation of waste This first part begins by raising some capital questions What is waste Which are the components of waste Where is waste generated and How is waste treated The second part will deal with Why is waste produced and What is society doing to correct this problem 2 2 First part Current generation and treatment of waste 2 2 1 What is waste The dictionary defines waste as something useless unwanted or defective and the word by product as something produced in an industrial or biological process in addition to the principal product From the point of view of sustainability the word waste does not have

that meaning as though it may be unwanted it is not something useless and is certainly not defective Even if in a manufacturing process a product or part of it does not conform to the manufacturer s quality specs it does not thereby become waste but is rather scrap material that is usually brought back to its original state and then processed again

**Modules** McDougal Littell Incorporated,2005      Schaum's Easy Outline of Biology George Fried,George J. Hademenos,2001-02-20 Boiled down essentials of the top selling Schaum s Outline series for the student with limited time What could be better than the bestselling Schaum s Outline series For students looking for a quick nuts and bolts overview it would have to be Schaum s Easy Outline series Every book in this series is a pared down simplified and tightly focused version of its predecessor With an emphasis on clarity and brevity each new title features a streamlined and updated format and the absolute essence of the subject presented in a concise and readily understandable form Graphic elements such as sidebars reader alert icons and boxed highlights stress selected points from the text illuminate keys to learning and give students quick pointers to the essentials Designed to appeal to underprepared students and readers turned off by dense text Cartoons sidebars icons and other graphic pointers get the material across fast Concise text focuses on the essence of the subject Delivers expert help from teachers who are authorities in their fields Perfect for last minute test preparation So small and light that they fit in a backpack      **A Sourcebook for the Biological Sciences** Evelyn Morholt,Paul Franz Brandwein,1986      *Crop Physiology Abstracts* ,1977-07      *Meteorological and Geostrophysical Abstracts* ,1960      **A Primer on Linnology** Bruce A. Monson,1992      **Acta Physiologiae Plantarum** ,1978      **Industrial Arts Index** ,1928

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