

CHAPTER 6: PHOTOSYNTHESIS

SUBTOPIC : 6.1 Overview of photosynthesis.

LEARNING OUTCOME : Outline the complete process of photosynthesis: Light dependent and light independent reactions.

MAIN IDEAS /KEY POINT	EXPLANATION	NOTES
OVERALL REACTION OF PHOTOSYNTHESIS	<p>The conversion of light energy to chemical energy that is stored in sugar or other organic compound using CO₂ and water (occurs in plants, algae & certain unicellular eukaryotes and some prokaryotes).</p> <p>Light reactions:</p> <ul style="list-style-type: none"> • Are carried out by molecules in the thylakoid membranes • Convert light energy to the chemical energy of ATP and NADPH • Split H₂O and release O₂ to the atmosphere <p>Calvin cycle reactions:</p> <ul style="list-style-type: none"> • Take place in the stroma • Use ATP and NADPH to convert CO₂ to the sugar G3P • Return ADP, inorganic phosphate, and NADP⁺ to the light reactions 	
<p>FIGURE 1: Overall reaction of photosynthesis</p> <p><u>Chemical Equation for photosynthesis process:</u></p> $6\text{CO}_2 + 12\text{H}_2\text{O} \xrightarrow[\text{chlorophyll}]{\text{sunlight}} \text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2 + 6\text{H}_2\text{O}$ <ul style="list-style-type: none"> • Reactants (Begins with): <ul style="list-style-type: none"> ○ Sunlight (Light Energy) ○ Water (from the ground) ○ Carbon dioxide (from the air) • Products (Ends with): <ul style="list-style-type: none"> ○ Oxygen (Releases into atmosphere) ○ Glucose/ other organic compound (Stores chemical energy) ○ Water 		

Chapter 6 Photosynthesis Modern Biology Test

David Kraus



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Modern Biology, 1991 Albert Towle, 1989 **Modern Biology** Albert Towle, 1989 Biology, 1998 **Concepts in Modern Biology** David Kraus, 1984 **DAT: Dental Admissions Test: Includes 3 Full Length Practice Tests + Online Access to Video Tutorials** Barron's Educational Series, Joseph Di Rienzo, 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 **AP - Biology** Gabrielle I. Edwards, Marion Cimmino, 2001 General advice on test preparation and Advanced Placement Test question types is followed by extensive topic reviews that cover molecules and cells genetics and evolution and organisms and populations Four full length model AP Biology exams are given followed by answers and explanations for all questions *Biology* Tom M. Graham, 1991 **Modern Tools and Techniques to Understand Microbes** Ajit Varma, Arun Kumar Sharma, 2017-04-21 This book provides essential molecular techniques and protocols for analyzing microbes that are useful for developing novel bio chemicals such as medicines biofuels and plant protection substances The topics and techniques covered include microbial diversity and composition microorganisms in the food industry mass cultivation of sebacinales host microbe interaction targeted gene disruption function based metagenomics to reveal the rhizosphere microbiome mycotoxin biosynthetic pathways legume rhizobium symbioses multidrug transporters of yeast drug resistant bacteria the fungal endophyte *Piriformospora indica* medicinal plants arbuscular mycorrhizal fungi biosurfactants in microbial enhanced oil recovery and biocontrol of the soybean cyst nematode with root endophytic fungi as well as microbe mediated drought tolerance in plants **Barron's how to Prepare for the Advanced Placement Examination AP Biology** Gabrielle I. Edwards, Marion Cimmino, 1992 This newly updated manual contains three model exams with answers and explanations plus a detailed review of college level biology that covers all AP exam topics Practical advice is also given for the essay question and short answer questions **A Lab for All Seasons** Sharon E. Kingsland, 2023-07-25 The first book to chronicle how innovation in laboratory designs for botanical research energized the emergence of physiological plant ecology as a vibrant subdiscipline Laboratory innovation since the mid twentieth century has powered advances in the study of plant adaptation evolution and ecosystem function The phytotron an integrated complex of controlled environment greenhouse and laboratory spaces invented by Frits W Went in the 1950s set off a worldwide laboratory movement and transformed the plant sciences Sharon Kingsland explores this revolution through a

comparative study of work in the United States France Australia Israel the USSR and Hungary These advances in botanical research energized physiological plant ecology Case studies explore the development of phytotron spinoffs such as mobile laboratories rhizotrons and ecotrons Scientific problems include the significance of plant emissions of volatile organic compounds symbiosis between plants and soil fungi and the discovery of new pathways for photosynthesis as an adaptation to hot dry climates The advancement of knowledge through synthesis is a running theme linking disciplines combining laboratory and field research and moving across ecological scales from leaf to ecosystem The book also charts the history of modern scientific responses to the emerging crisis of food insecurity in the era of global warming *Essential Biochemistry* Charlotte W. Pratt, Kathleen Cornely, 2023-08-25 *Essential Biochemistry* 5th Edition is comprised of biology pre med and allied health topics and presents a broad but not overwhelming base of biochemical coverage that focuses on the chemistry behind the biology This revised edition relates the chemical concepts that scaffold the biology of biochemistry providing practical knowledge as well as many problem solving opportunities to hone skills Key Concepts and Concept Review features help students to identify and review important takeaways in each section **Teacher's Wraparound Edition: Two Biology Everyday Experience** Albert Kaskel, 1994-04-19 McGraw-Hill Education SAT Subject Test Biology E/M 4th Ed. Stephanie Zinn, 2016-01-01 Prepare for the SAT Biology E M test with the experts you trust This step by step guide will give you the knowledge and tools you need to succeed on this challenging exam You ll get essential skill building techniques and strategies created and classroom tested by high school science teachers and curriculum developers You ll also get full length practice tests hundreds of sample questions and all the facts about the current exam everything you need to do your best on test day Features 4 full length sample tests in the latest test format More than 400 practice questions Step by step review of all topics covered on the exam Teacher recommended strategies to raise your score Special features SAT Biology at a Glance Top Items to Remember on Test Day and more About the Authors Stephanie Zinn New York NY taught biology at the Spence School a leading private high school in New York City Nick Tarasen is a widely published science writer and educator **American Journal of Botany** ,2002 **McGraw-Hill's SAT Subject Test Biology E/M, 3rd Edition** Stephanie Zinn, 2011-12-30 Expert guidance on the Biology E M exam Many colleges and universities require you to take one or more SAT II Subject Tests to demonstrate your mastery of specific high school subjects McGraw Hill s SAT Subject Test Biology E M is written by experts in the field and gives you the guidance you need perform at your best This book includes 4 full length sample tests updated for the latest test formats two practice Biology E exams and two practice Biology M exams 30 top tips to remember for test day Glossary of tested biology terms How to decide whether to take Biology E or Biology M Diagnostic test to pinpoint strengths and weaknesses Sample exams exercises and problems designed to match the real tests in content and level of difficulty Step by step review of all topics covered on the two exams In depth coverage of the laboratory experiment questions that are a major part of the test Energy Research Abstracts ,1981 College Board Achievement

Test in Biology Lawrence Solomon, 1983-12 Sample tests provide a review of aspects of biology such as cell structure reproduction genetics evolution biochemistry and the nervous system Essentials of Biology Leland G. Johnson, Rebecca L. Johnson, 1986 **Botany, a Human Concern** David Rayle, Lee Wedberg, 1975 *Cell Biology and Genetics* Cecie Starr, Ralph Taggart, 1998 Cell Biology and Genetics covers Chapter 1 Unit I The Cellular Basis of Life and Unit II Principles of Inheritance and contains a customized table of contents and the back matter from Biology The Unity and Diversity of Life The Cell Biology Genetics volume includes characteristics of life scientific methods basic chemistry cell biology metabolism mitosis and meiosis classical genetics human genetics molecular genetics recombinant DNA and genetic engineering

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