

AP Bio Chapter 07 Group Notes: Photosynthesis

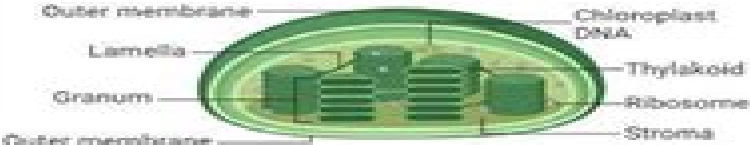
[Link to Slide Presentation](#)

HSR&T (Highly Suggested Reading and Thinking) This is independent work that you can do as a (GSN) team/individually - either way, ALL members of the team should do the reading/thinking....you will be assessed over this information.

Big Idea 4: Interdependent Relationships ~ "Tropical Rain Forest Destruction and Climate Change" (p. 122)

1. Define climate change and describe the evidence supporting an increase in the amount of carbon dioxide.
2. What is the impact of greenhouse gasses on both land and water and what are the two factors increasing the amount of carbon dioxide in the atmosphere?
3. Describe the human analogy used to describe the role of the tropical rain forests.
4. Some have hypothesized that with an increase in carbon dioxide levels there would be an increase in the amount of photosynthesis. What does the evidence say?
5. This topic was discussed under the banner of "Big Idea 4", why do you think that is?

7.1 Photosynthesis and Organisms 3.5, 2.2

Basics: <ol style="list-style-type: none"> 1. Photosynthesis: converts -solar- energy into -chemical- energy of a carbohydrate- can be used for structure or fuel 2. Autotrophs: -Produce their own food, convert inorganic to organic- 3. Heterotrophs: consumers, take in preformed organic molecules (plant/animal/fungi) as building blocks and as a source of energy 4. Oxygen: second product of photosynthesis, allows for aerobic respiration to take place 	
Reactants: solar energy, water and CO₂ <ol style="list-style-type: none"> 1. Water: in through -roots- 2. CO₂: in through stomatal openings in leaves 3. Both: -diffuse into the chloroplasts- 	
Chloroplast Anatomy: <ol style="list-style-type: none"> 1. Double -Membrane- 2. Stroma: semifluid interior - CO₂ fixed here into a carbohydrate 3. Thylakoid membranes: for increased surface area, ATP/NADP_H generated here <ol style="list-style-type: none"> a. forms interconnected spaces where hydrogen ions can be concentrated. b. pigments embedded in membranes c. grana/granum: membrane stacks 	

7.2 The Process of Photosynthesis 3.5

The overall reaction: $\text{Solar Energy} + 6\text{CO}_2 + 6\text{H}_2\text{O} \rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2$	
The role of NADP/H: <ol style="list-style-type: none"> 1. Water initially provides the -electrons- to -reduce- CO₂ into glucose 2. However, the electrons/energy are given to NADP⁺ 	

Completed Ch 7 Ap Biology Guide

William Swan Sonnenschein



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Guide to Information Sources in Mathematics and Statistics Martha A. Tucker, Nancy D. Anderson, 2004-09-30 This book is a reference for librarians mathematicians and statisticians involved in college and research level mathematics and statistics in the 21st century We are in a time of transition in scholarly communications in mathematics practices which have changed little for a hundred years are giving way to new modes of accessing information Where journals books indexes and catalogs were once the physical representation of a good mathematics library shelves have given way to computers and users are often accessing information from remote places Part I is a historical survey of the past 15 years tracking this huge transition in scholarly communications in mathematics Part II of the book is the bibliography of resources recommended to support the disciplines of mathematics and statistics These are grouped by type of material Publication dates range from the 1800 s onwards Hundreds of electronic resources some online both dynamic and static some in fixed media are listed among the paper resources Amazingly a majority of listed electronic resources are free

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Biology Kenneth Raymond Miller, Prentice Hall (School Division), 1999-02

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