

## Chapter 8 Reading Guide – ANSWER KEY

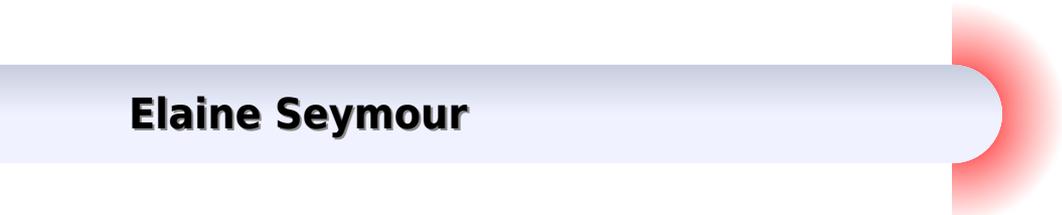
- As a review, define the terms **autotroph** and **heterotroph**. Keep in mind that plants have mitochondria and chloroplasts and do both cellular respiration and photosynthesis! **Autotrophs are able to sustain themselves without eating other living organisms or material derived from living organisms. Autotrophs make their own "food" through either photosynthesis (solar energy → glucose) or chemosynthesis (inorganic materials such as methane and hydrogen sulfide → organic molecules). Autotrophs are also known as producers. Heterotrophs must consume other organisms for energy. Decomposers (some bacteria and fungi) are considered heterotrophs.**
- Draw a picture of a chloroplast and label the **stroma**, **thylakoid**, **thylakoid space**, **inner membrane**, and **outer membrane**.



- Use both chemical symbols and words to write out the formula for photosynthesis.  $6\text{CO}_2 + 6\text{H}_2\text{O} + \text{Light Energy} \rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2$ . Carbon dioxide reacts with water and energy from the sun to produce glucose and oxygen. Photosynthesis is another example of a redox reaction where carbon dioxide is reduced to glucose and water is oxidized to oxygen. The electrons increase in potential energy as they move from water to sugar (endergonic). The energy is provided by the sun.
- Photosynthesis is not a single process, but two processes, each with multiple steps.
  - Explain what occurs in the **light reactions** stage of photosynthesis. Be sure to use **NADP<sup>+</sup>** and **photophosphorylation** in your discussion. The light reactions occur in the thylakoid membranes of the chloroplasts. During the light reactions, water is split which provides a source of electrons and  $\text{H}^+$  ions (protons). When water is split, oxygen gas is released as a byproduct. Light absorption by chlorophyll transfer electrons and  $\text{H}^+$  to an electron carrier called NADP<sup>+</sup>. The light reactions also generate ATP, using chemiosmosis to power the addition of a phosphate to ADP. This is called photophosphorylation. At the end of the light reactions, light energy is converted into chemical energy store in ATP and NADPH. (No sugar yet!)
  - Explain the **Calvin cycle**, utilizing the term **carbon fixation** in your discussion. The Calvin cycle occurs in the stroma of the chloroplasts. The Calvin cycle begins with the incorporation of carbon dioxide from the air into organic molecules already present in the chloroplast. This is known as carbon fixation. The Calvin cycle then reduces the fixed carbon into carbohydrates by adding electrons provided NADPH. Chemical energy is supplied by ATP. The end result of the Calvin cycle is carbohydrate molecules called G3P which consist of 3 carbons each. G3P molecules are used to produce glucose.

# Ap Biology Reading Guide Answers Chapter 9

**Elaine Seymour**



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**Biology** Kenneth Raymond Miller, Prentice Hall (School Division), 1999-02      **Partners in Innovation** Elaine Seymour, 2005 Seymour argues from evidence that effective deployment adequate professional education and collegial collaboration between faculty and their TAs are critical in ensuring the future quality of science education BOOK JACKET

**Resources in Education**, 1994      **Student Study Guide for Biology [by] Campbell/Reece** Martha R. Taylor, 2002 Marty Taylor Cornell University Provides a concept map of each chapter chapter summaries a variety of interactive questions and chapter tests

**Nutrition Guide for Physicians and Related Healthcare Professionals** Norman J. Temple, Ted Wilson, George A. Bray, 2017-03-31 This second edition volume is a desktop reference guide on nutrition and its clinical implications for health and disease Presented in a new softcover format and user friendly style it serves as a valuable resource of practical information on nutrition for physicians and other healthcare professionals in their daily practice The book covers all important aspects of nutrition including basic nutritional principles nutrition through the lifecycle and optimal nutrition patterns through all stages of development and diet and its role in prevention cause and treatment of disease Nutrition Guide for Physicians and Related Healthcare Professionals is thoroughly updated from its predecessor Nutrition Guide for Physicians and provides a wide perspective of the impact that nutrition has upon medical practice and will be an indispensable resource for primary care physicians and other medical professionals

*Study Guide* George Karleskint, 1991      *Student Study Guide to Accompany Human Biology* Sylvia S. Mader, 2003-08 This best selling text emphasizes the relationship between humans and other living things Intended for an introductory course this text provides students with a firm grasp of how their bodies function and how the human population can become more fully integrated into the biosphere An Online Learning Center tied directly to the text via icons will direct students to activities or animations that gives a visual example of difficult processes as well as Working Together boxes to emphasize homeostasis

*The Oklahoma Teacher*, 1940      **Study Guide to Accompany Biology by Karen Arms and Pamela S. Camp** Russell C. Hollingsworth, 1979      **Study Guide for Psychology** David G. Myers, Richard O. Straub, 2009-04-03 Longtime Myers collaborator Richard Straub provides an updated study guide for the new edition

*High School Biology: The laboratory (Teachers' guide)* Biological Sciences Curriculum Study, 1961      Standard Catalog Bimonthly H.W. Wilson Company, 1922

**Standard Catalog Bimonthly**, 1922      **Respiratory Care**, 2001      *The Publishers Weekly*, 1911      **Publishers' Weekly**, 1895      **Science Books & Films**, 1989      **Current Literature**, 1930      *Williams Gynecology, Third Edition, Study Guide* Claudia L. Werner, Elysia Moschos, William F. Griffith, Victor E. Beshay, David D. Rahn, Debra L. Richardson, Barbara L. Hoffman, 2016-11-05 Gain a better understanding of the basic principles of gynecology presented in Williams Gynecology Third Edition with this full color study guide Directly derived from the content of Williams Gynecology Third Edition this authoritative study guide is designed to assess your understanding and retention of the acclaimed evidence

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