

## 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+** 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 H<sup>+</sup> ions (protons). When water is split, oxygen gas is released as a byproduct. Light absorption by chlorophyll transfer electrons and H<sup>+</sup> to an electron carrier called NADP+. 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.**

# Biology Chapter Active Reading Guide Answers

**Jo Ormisher**



## **Biology Chapter Active Reading Guide Answers:**

*Modern Biology* Holt Rinehart & Winston, Theresa Flynn-Nason, 2002-01-01 *Books in Print Supplement*, 2002

**Chapter Resource 4 Cells and Their Environment Biology** Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2003

**Campbell Biology Australian and New Zealand Edition** Jane B. Reece, Noel Meyers, Lisa A. Urry, Michael L. Cain, Steven A. Wasserman, Peter V. Minorsky, 2015-05-20 Over nine successful editions CAMPBELL BIOLOGY has been recognised as the world's leading introductory biology textbook The Australian edition of CAMPBELL BIOLOGY continues to engage students with its dynamic coverage of the essential elements of this critical discipline It is the only biology text and media product that helps students to make connections across different core topics in biology between text and visuals between global and Australian New Zealand biology and from scientific study to the real world The Tenth Edition of Australian CAMPBELL BIOLOGY helps launch students to success in biology through its clear and engaging narrative superior pedagogy and innovative use of art and photos to promote student learning It continues to engage students with its dynamic coverage of the essential elements of this critical discipline This Tenth Edition with an increased focus on evolution ensures students receive the most up to date accurate and relevant information [Aiming for an A in A-level Biology](#) Jo Ormisher, 2018-09-03 Exam Board AQA CCEA Edexcel OCR WJEC Eduqas Level A level Subject Biology First teaching September 2015 First exams Summer 2017 Master the skills you need to set yourself apart and hit the highest grades this year round course companion develops the higher order thinking skills that top achieving students possess providing step by step guidance examples and tips for getting an A grade Written by experienced author and teacher Jo Ormisher Aiming for an A in A level Biology Helps you develop the A grade skills of analysis evaluation creation and application Takes you step by step through specific skills you need to master in A level Biology including scientific reading quantitative and practical skills so you can apply these skills and approach each exam question as an A A candidate Clearly shows how to move up the grades with sample responses annotated to highlight the key features of A A answers Helps you practise to achieve the levels expected of top performing students using in class or homework activities and further reading tasks that stretch towards university level study Perfects exam technique through practical tips and examples of common pitfalls to avoid Cultivates effective revision habits for success with tips and strategies for producing and using revision resources Supports all exam boards outlining the Assessment Objectives for reaching the higher levels under the AQA Edexcel OCR WJEC Eduqas and CCEA specifications [Help! My College Students Can't Read](#) Amelia Leighton Gamel, 2015-03-05 Help My College Students Can't Read Teaching Vital Reading Strategies in the Content Areas is designed as a resource guide for content area instructors who have no specific training in the field of literacy but want to help the struggling readers in their classrooms This book provides simple step by step ideas for introducing and embedding reading strategies within all content areas without sacrificing a lot of valuable class time This easy to use resource will equip instructors to not only help their students

be stronger readers in general but to be stronger readers of content area academic texts

**Chapter Resource 39**  
**Digestive/Excretory Biology** Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004 *Chapter Resource 40*  
*Body's Defenses Biology* Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004 *Chapter Resource 14 Class of*  
*Organisms Biology* Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004 **Holt Biology Chapter 24 Resource**  
**File: Plant Reproduction** Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004 *Holt Biology Resource File*  
Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004 *Holt Biology Chapter 41 Resource File: Nervous System*  
Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004 **Chapter Resource 5 Photosynthesis/Cell Response**  
**Biology** Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004 **Chapter Resource 34 Reptiles and Birds**  
**Biology** Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004 Chapter Resource 11 Gene Technology Biology  
Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004 *Study Guide to Accompany Biology: Life on Earth by*  
*Teresa Audesirk and Gerald Audesirk* David J. Cotter, 1986 *We Are America* Anna Joy, 2002 A reader rhetoric and  
handbook for developmental writers We Are America's cross cultural readings are designed to increase student awareness of  
perspectives that are different from their own **Overcoming Dyslexia** Sally Shaywitz, M.D., Jonathan Shaywitz  
MD, 2020-03-24 From one of the world's preeminent experts on reading and dyslexia the most comprehensive up to date and  
practical book available on identifying understanding and overcoming reading problems now revised to reflect the latest  
research and evidence based approaches Dyslexia is the most common learning disorder on the planet affecting about one in  
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aspects of dyslexia and reading problems and providing the tools that parents teachers and all dyslexic individuals need This  
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dyslexia in post menopausal women Extensively updated information on helping both dyslexic children and adults become  
better readers with a detailed home program to enhance reading Evidence based universal screening for dyslexia as early as  
kindergarten and first grade why and how New information on how to identify dyslexia in all age ranges Exercises to help  
children strengthen the brain areas that control reading Ways to raise a child's self esteem and reveal her strengths Stories  
of successful men women and young adults who are dyslexic **Chapter Resource 43 Reproduction/Developmental**  
**Biology** Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004 **Active Vocabulary** Amy E. Olsen, Patti C.  
Biley, 2001-11 Active Vocabulary is designed to accompany a reading text at the second tier reading level Readings cover  
both general words and academic subjects There are a number of exercises to stimulate different learning styles as well as to

encourage cross referencing of the words through different contexts Self tests and games in each chapter round out the exposure for each vocabulary word Four chapters on word parts are included as well as three review chapters

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