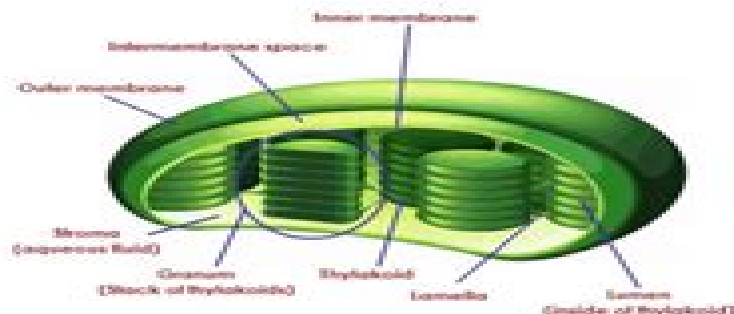


Chapter 8 Reading Guide – ANSWER KEY

1. 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.
2. Draw a picture of a chloroplast and label the **stroma**, **thylakoid**, **thylakoid space**, **inner membrane**, and **outer membrane**.



3. 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.
4. Photosynthesis is not a single process, but two processes, each with multiple steps.
 - a. 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^+ ions (protons). When water is split, oxygen gas is released as a byproduct. Light absorption by chlorophyll transfer electrons and H^+ 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!)
 - b. 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.

Guided Reading And Study Workbook Chapter 8

Photosynthesis

**Ann M.L. Cavallo, Karen Allmond, Mary
D. Curtis, Marci Smith Deal, Christina
Gawlik, Candace Joswick, Melissa
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and templates By bringing CTS into schools and other professional development settings science leaders can enhance their teachers knowledge of content improve teaching practices and have a positive impact on student learning *Botany* James D. Mauseth,2003 *Botany An Introduction to Plant Biology Third Edition* provides an updated thorough overview of the fundamentals of botany The topics and chapters are organized in a sequence that is easy to follow beginning with the most familiar structure and proceeding to the less familiar metabolism then finishing with those topics that are probably the least familiar to most beginning students genetics evolution the diversity of organisms and ecology **Cells and Heredity** Michael J. Padilla,2002 Resources in Education ,1997 **Science Spectrum** Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2003-03 **Glencoe iScience: From Bacteria to Plants, Student Edition** McGraw Hill,2001-05-23 With the 15 Life Earth and Physical Science titles in the Glencoe series you can select the specific topics you want to cover and customize your science curriculum any way you want Integrate topics from other content area to meet any curriculum requirements As students complete each book they see the progress they re making and feel a sense of accomplishment Only from Glencoe Foldables are unique hands on tools that help students create an interactive strategy for organizing what they read As they work through each chapter your students add more detail to their Foldables until they ve created a comprehensive snapshot of important chapter concepts **Introduction to the Biology of Marine Life** James L. Sumich,John Francis Morrissey,2004 This textbook examines selected groups of marine organisms within a framework of basic biological principles and processes With attention to taxonomic evolutionary ecological behavioral and physiological aspects of biological study the book contains chapters on habitat patterns of association phytoplankton marine plants protozoans and inv **Towards Deeper Learning in Primary CLIL** Fay Chen,2025-03-04 Chen proposes a disciplinary literacy DL approach to Content and Language Integrated Learning CLIL planning and teaching in her book in answer to concerns expressed by some about the growth of CLIL internationally in recent decades The concerns regarding CLIL schools circle around the feasibility of the policy particularly regarding the challenges of teaching and learning new subject content in an additional language in primary education In response the author tackles the fundamental questions surrounding CLIL implementation with a focus on fostering deeper learning using examples from the Taiwanese context The chapters delve into the key planning issues in primary education CLIL and explore the language teaching awareness of CLIL teachers in various subject areas In addition to proposing a DL approach the book also discusses the necessity for teachers awareness of subject specific literacies in curriculum planning highlighting the importance of scaffolding primary students to achieve deeper learning in CLIL classrooms As a whole Chen stimulates discourse and research in CLIL planning and teaching thereby informing CLIL teacher education This book is an essential read for researchers and research students interested in deeper learning and bilingual and multilingual education programs It is also a viable resource for teacher educators and teachers who teach in multilingual programs and primary education Chemical Engineering Catalog ,1920 Research in

Education ,1973-12 Chemical Interactions ,2005 **A Biologist's Guide to Principles and Techniques of Practical Biochemistry** Bryan L. Williams,Keith Wilson,1975 *Ecology: Teacher's ed* ,2005 Addison-Wesley Chemistry Antony C. Wilbraham,Dennis D. Staley,Michael S. Matta,Edward L. Waterman,Prentice-Hall Staff,2001-02 To purchase or download a workbook click on the Purchase or Download button to the left To purchase a workbook enter the desired quantity and click Add to Cart To download a free workbook right click the FREE Download PDF link and save to your computer This will result in a faster download as opposed to left clicking and opening the link **An Introduction to the World's Oceans** Keith A. Sverdrup,2008 An Introduction to the World's Oceans Ninth Edition is an introductory oceanography text intended for students without a background in mathematics chemistry physics geology or biology It emphasizes the role of basic scientific principles in helping understand the processes that govern the ocean and the earth *The Athenaeum* ,1916

Examining Pedagogical Content Knowledge Julie Gess-Newsome,Norman G. Lederman,2006-04-11 Since its emergence over two decades ago the construct of pedagogical content knowledge PCK has significantly impacted preservice and inservice teacher education educational policy and educational research PCK has served to refocus educators attention on the important role of subject matter in educational practice and away from the more generic approach to teacher education that dominated the field prior to 1975 This ambitious text is the first of its kind to summarize the theory research and practice related to pedagogical content knowledge The audience is provided with a functional understanding of the basic tenets of the construct as well as its applications to research on science teacher education and the development of science teacher education programs The authors are prominent educators representing a variety of subject matter areas and K 12 grade levels Although the focus of the text is science education it should provide valuable reading for any individuals with interests in professional teacher education Dyslexia in Practice Janet Townend,Martin Turner,2012-12-06 Dyslexia is a specific learning difficulty that hinders the learning of literacy skills This problem with managing verbal codes in memory is neurologically based and tends to run in families Other symbolic systems such as mathematics and musical notation can also be affected Dyslexia can occur at any level of intellectual ability It can accompany but is not a result of lack of motivation emotional disturbance sensory impairment or meagre opportunities The effects of dyslexia can be alleviated by skilled specialist teaching and committed learning Moreover many dyslexic people have visual and spatial abilities which enable them to be successful in a wide range of careers The appearance of this book is to be welcomed It represents a full statement of the best practice to be found in the many kinds of intervention that are conducted with dyslexic students It addresses some fundamental questions that are seldom asked and much of what the skilled teacher knows and does is set down here in print for the first time From the Preface Collectively the chapters provide a synthesis of current practice focusing on how to assess and treat the symptoms of dyslexia guided by a proper understanding of the cognitive and linguistic weaknesses that underpin the condition The book makes clear that the backbone of intervention for dyslexia is a highly structured

multisensory approach that teaches reading and spelling skills at the appropriate rate. However, it is also explicit in pointing out that such a programme must be delivered with due attention to individual differences in the other cognitive skills that contribute to literacy development and take account of the learner's style, interests, and not least their confidence and self-esteem. This book provides an important resource for teachers who wish to become competent in the skills required for the assessment, teaching, supporting, and counselling of dyslexic people in a variety of settings. It promises to reach many teachers and in turn their students and families. Margaret J. Snowling, University of York, UK.

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web arrhenius bases an arrhenius base is defined as any species that increases the concentration of hydroxide ions OH^- in aqueous solution an example of an arrhenius base is the highly soluble sodium hydroxide NaOH sodium hydroxide dissociates in water as follows $\text{NaOH} \rightarrow \text{Na}^+ + \text{OH}^-$ in water sodium hydroxide

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web work done by svante arrhenius in the late 19th century set the groundwork for our current understanding of acid base theory despite the relatively limited technology available to him he was able to develop theories that adequately explained the properties and chemical reactivity of many acids and bases

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web the arrhenius theory of acids and bases acids are substances that produce hydrogen ions in solution bases are substances that produce hydroxide ions in solution neutralization happens because hydrogen ions and hydroxide ions react to produce water $\text{H}^+ + \text{OH}^- \rightarrow \text{H}_2\text{O}$ $\text{HCl} + \text{NaOH} \rightarrow \text{NaCl} + \text{H}_2\text{O}$ hydrochloric

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web aug 15 2020 the equilibrium formulated in scheme 1 between hydrogen ion and the corresponding acid and base can be called a simple acid base equilibrium by mixing two simple systems a double acid base system and an acid base equilibrium result that can always be formulated as follows $\text{acid}_1 + \text{base}_2 \rightleftharpoons \text{acid}_2 + \text{base}_1$

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web the a ion is a base because it is accepting a proton from the h 3 o the reversible reaction contains two acids and two bases we think of them in pairs called conjugate pairs when the acid ha loses a proton it forms a base a when the base a accepts a proton back again it obviously reforms the acid ha

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because it lends itself well to studying equilibrium and kine