

Chapter 8 Photosynthesis Graphic Organizer

This landmark collective work introduces the physical, chemical, and biological principles underlying photosynthesis: light absorption, excitation energy transfer, and charge separation. It begins with an introduction to properties of various pigments, and the pigment proteins in plant, algae, and bacterial systems. It addresses the underlying physics of light harvesting and key spectroscopic methods, including data analysis. It discusses assembly of the natural system, its energy transfer properties, and regulatory mechanisms. It also addresses light-harvesting in artificial systems and the impact of photosynthesis on our environment. The chapter authors are amongst the field's world recognized experts. Chapters are divided into five main parts, the first focused on pigments, their properties and biosynthesis, and the second section looking at photosynthetic proteins, including light harvesting in higher plants, algae, cyanobacteria, and green bacteria. The third part turns to energy transfer and electron transport, discussing modeling approaches, quantum aspects, photoinduced electron transfer, and redox potential modulation, followed by a section on experimental spectroscopy in light harvesting research. The concluding final section includes chapters on artificial photosynthesis, with topics such as use of cyanobacteria and algae for sustainable energy production. Robert Croce is Head of the Biophysics Group and full professor in biophysics of photosynthesis/energy at Vrije Universiteit, Amsterdam. Rienk van Grondelle is full professor at Vrije Universiteit, Amsterdam. Herbert van Amerongen is full professor of biophysics in the Department of Agrotechnology and Food Sciences at Wageningen University, where he is also director of the MicroSpectroscopy Research Facility. Ivo van Stokkum is associate professor in the Department of Physics and Astronomy, Faculty of Sciences, at Vrije Universiteit, Amsterdam.

Eleanor Estes's *The Hundred Dresses* won a Newbery Honor in 1945 and has never been out of print since. At the heart of the story is Wanda Petronski, a Polish girl in a Connecticut school who is ridiculed by her classmates for wearing the same faded blue dress every day. Wanda claims she has one hundred dresses at home, but everyone knows she doesn't and bullies her mercilessly. The class feels terrible when Wanda is pulled out of the school, but by that time it's too late for apologies. Maddie, one of Wanda's classmates, ultimately decides that she is "never going to stand by and say nothing again." The author provides teacher-friendly tools, insights, sample lessons, and strategies for delivering quality, standards-based science curriculum and instruction that ensures student achievement.

****This is the chapter slice "What Are Aquatic Ecosystems? Gr. 5-8" from the full lesson plan "Conservation: Waterway Habitat Resources"***** Students will become aware of aquatic ecosystems facing severe change around the globe. Our resource focuses on recognizing how climate change and human activities are affecting their delicate balances. Become an ecologist and list factors in an aquatic ecosystem as biotic or abiotic. Visit an aquatic ecosystem near your home and learn as much as you can through careful observations. Find out why some aquatic organisms have a hard time adapting to climate change. Explore the effects of human activity on aquatic ecosystems. Spend some time at your local aquarium to be a part of the aquatic ecosystem. Get a

sense of what's to come as you look at the rate of extinction of marine species. Find out what we can do to restore aquatic dead zones. Written to Bloom's Taxonomy and STEAM initiatives, additional hands-on activities, graphic organizers, crossword, word search, comprehension quiz and answer key are also included.

Climate change is occurring, is caused largely by human activities, and poses significant risks for--and in many cases is already affecting--a broad range of human and natural systems. The compelling case for these conclusions is provided in *Advancing the Science of Climate Change*, part of a congressionally requested suite of studies known as America's Climate Choices. While noting that there is always more to learn and that the scientific process is never closed, the book shows that hypotheses about climate change are supported by multiple lines of evidence and have stood firm in the face of serious debate and careful evaluation of alternative explanations. As decision makers respond to these risks, the nation's scientific enterprise can contribute through research that improves understanding of the causes and consequences of climate change and also is useful to decision makers at the local, regional, national, and international levels. The book identifies decisions being made in 12 sectors, ranging from agriculture to transportation, to identify decisions being made in response to climate change. *Advancing the Science of Climate Change* calls for a single federal entity or program to coordinate a national, multidisciplinary research effort aimed at improving both understanding and responses to climate change. Seven cross-cutting research themes are identified to support this scientific enterprise. In addition, leaders of federal climate research should redouble efforts to deploy a comprehensive climate observing system, improve climate models and other analytical tools, invest in human capital, and improve linkages between research and decisions by forming partnerships with action-oriented programs.

****This is the chapter slice "Where Is Earth's Salt Water? Gr. 5-8" from the full lesson plan "Conservation: Ocean Water Resources"***** The oceans contain 97% of the Earth's water, cover 71% of its surface, and hold 50-80% of all life on the planet. Our resource explores the importance of conserving this vast area. Design a board game that illustrates the effects of climate change on Earth's oceans. See how the water cycle explains why most of Earth's salt water is found in the oceans. Find out how climate change will affect ocean currents, resulting in a dramatic change to the farming and fishing industries. Explain how an increase in human population can cause some salt lakes to shrink. Conduct a case study on a container ship that lost several containers in a storm in the north Pacific Ocean. Make your own salt water to represent Earth's oceans and experience what it would be like to visit them. Get tips on what we can do to help protect ocean water. Written to Bloom's Taxonomy and STEAM initiatives, additional hands-on activities, graphic organizers, crossword, word search, comprehension quiz and answer key are also included.

****This is the chapter slice "Study Green Gr. 5-8" from the full lesson plan "Reducing Your School's Carbon Footprint"***** Bring climate change to the classroom by teaching students about their school's carbon footprint. Our resource helps students determine their school's carbon footprint and what they can do to make it smaller. Identify fossil fuels used at school and how they make your life more convenient. Brainstorm ways to reduce energy used in your school. Recognize the benefits of adding idle-free zones to your school. Explore events in the history of a slice of bread that caused the emission of greenhouse gases. Calculate the amount

of carbon dioxide trees would remove from the atmosphere if they were planted around the perimeter of your school. Complete a project that will lead to a reduced school footprint. Find out how carbon offsets help reduce a school's carbon footprint. Written to Bloom's Taxonomy and STEAM initiatives, additional graphic organizers, carbon footprint calculator, crossword, word search, comprehension quiz and answer key are also included.

The Principles of Biology sequence (BI 211, 212 and 213) introduces biology as a scientific discipline for students planning to major in biology and other science disciplines. Laboratories and classroom activities introduce techniques used to study biological processes and provide opportunities for students to develop their ability to conduct research.

How can we understand and rise to the environmental challenges of global change? One clear answer is to understand the science of global change, not solely in terms of the processes that control changes in climate and the composition of the atmosphere, but in how ecosystems and human society interact with these changes. In the last two decades of the twentieth century, a number of such research efforts--supported by computer and satellite technology--have been launched. Yet many opportunities for integration remain unexploited, and many fundamental questions remain about the earth's capacity to support a growing human population. This volume encourages a renewed commitment to understanding global change and sets a direction for research in the decade ahead. Through case studies the book explores what can be learned from the lessons of the past 20 years and what are the outstanding scientific questions. Highlights include: Research imperatives and strategies for investigators in the areas of atmospheric chemistry, climate, ecosystem studies, and human dimensions of global change. The context of climate change, including lessons to be gleaned from paleoclimatology. Human responses to--and forcing of--projected global change. This book offers a comprehensive overview of global change research to date and provides a framework for answering urgent questions.

Humans, especially children, are naturally curious. Yet, people often balk at the thought of learning science--the "eyes glazed over" syndrome. Teachers may find teaching science a major challenge in an era when science ranges from the hardly imaginable quark to the distant, blazing quasar. Inquiry and the National Science Education Standards is the book that educators have been waiting for--a practical guide to teaching inquiry and teaching through inquiry, as recommended by the National Science Education Standards. This will be an important resource for educators who must help school boards, parents, and teachers understand "why we can't teach the way we used to." "Inquiry" refers to the diverse ways in which scientists study the natural world and in which students grasp science knowledge and the methods by which that knowledge is produced. This book explains and illustrates how inquiry helps students learn science content, master how to do science, and understand the nature of science. This book explores the dimensions of teaching and learning science as inquiry for K-12 students across a range of science topics. Detailed examples help clarify when teachers should use the inquiry-based approach and how much structure, guidance, and coaching they should provide. The book dispels myths that may have discouraged educators from the inquiry-based approach and illuminates the subtle interplay between concepts, processes, and science as it is experienced in the classroom. Inquiry and the National Science Education Standards shows how to bring the standards to life, with features such as classroom vignettes exploring different kinds of inquiries for elementary, middle, and high school and Frequently Asked Questions for teachers, responding to common concerns such as obtaining teaching supplies. Turning to assessment, the committee discusses why assessment is important, looks at existing schemes and formats, and addresses how to involve students in assessing their own learning achievements. In addition, this book

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discusses administrative assistance, communication with parents, appropriate teacher evaluation, and other avenues to promoting and supporting this new teaching paradigm.

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This hands-on resource offers a wealth of strategies aligned with national science education standards, including sample lessons for integrating reading instruction into inquiry-based science classrooms.

Use research- and brain-based teaching to engage students and maximize learning Lessons should be memorable and engaging. When they are, student achievement increases, behavior problems decrease, and teaching and learning are fun! In 100 Brain-Friendly Lessons for Unforgettable Teaching and Learning K-8, best-selling author and renowned educator and consultant Marcia Tate takes her bestselling Worksheets Don't Grow Dendrites one step further by providing teachers with ready-to-use lesson plans that take advantage of the way that students really learn. Readers will find 100 cross-curricular sample lessons from each of the four major content areas Plans designed around the most frequently-taught objectives Lessons educators can immediately adapt 20 brain compatible, research-based instructional strategies Questions that teachers should ask and answer when planning lessons Guidance on building relationships with students to maximize learning This well-researched book provides a valuable instructional framework for high school biology teachers as they tackle five particularly challenging concepts in their classrooms, meiosis, photosynthesis, natural selection, proteins and genes, and environmental systems and human impact. The author counsels educators first to identify students' prior conceptions, especially misconceptions, related to the concept being taught, then to select teaching strategies that best dispel the misunderstandings and promote the greatest student learning. The book is not a prescribed set of lesson plans. Rather it presents a framework for lesson planning, shares appropriate approaches for developing student understanding, and provides opportunities to reflect and apply those approached to the five hard-to-teach topics. More than 300 teacher resources are listed.

Three books containing a variety of reading strategies that will help increase comprehension. Some strategies include purpose questions, predicting, previewing, anticipation guides, webbing, writing before reading, etc.

Next Generation Science Standards identifies the science all K-12 students should know. These new standards are based on the National Research Council's A Framework for K-12 Science Education. The National Research Council, the National Science Teachers Association, the American Association for the Advancement of Science, and Achieve have partnered to create standards through a collaborative state-led process. The standards are rich in content and practice

and arranged in a coherent manner across disciplines and grades to provide all students an internationally benchmarked science education. The print version of Next Generation Science Standards complements the nextgenscience.org website and: Provides an authoritative offline reference to the standards when creating lesson plans Arranged by grade level and by core discipline, making information quick and easy to find Printed in full color with a lay-flat spiral binding Allows for bookmarking, highlighting, and annotating

Key Benefit: Fred and Theresa Holtzclaw bring over 40 years of AP Biology teaching experience to this student manual. Drawing on their rich experience as readers and faculty consultants to the College Board and their participation on the AP Test Development Committee, the Holtzclaws have designed their resource to help your students prepare for the AP Exam. * Completely revised to match the new 8th edition of Biology by Campbell and Reece. * New Must Know sections in each chapter focus student attention on major concepts. * Study tips, information organization ideas and misconception warnings are interwoven throughout. * New section reviewing the 12 required AP labs. * Sample practice exams. * The secret to success on the AP Biology exam is to understand what you must know—and these experienced AP teachers will guide your students toward top scores! **Market Description:** Intended for those interested in AP Biology. Biology for AP® courses covers the scope and sequence requirements of a typical two-semester Advanced Placement® biology course. The text provides comprehensive coverage of foundational research and core biology concepts through an evolutionary lens. Biology for AP® Courses was designed to meet and exceed the requirements of the College Board's AP® Biology framework while allowing significant flexibility for instructors. Each section of the book includes an introduction based on the AP® curriculum and includes rich features that engage students in scientific practice and AP® test preparation; it also highlights careers and research opportunities in biological sciences.

Genetically engineered (GE) crops were first introduced commercially in the 1990s. After two decades of production, some groups and individuals remain critical of the technology based on their concerns about possible adverse effects on human health, the environment, and ethical considerations. At the same time, others are concerned that the technology is not reaching its potential to improve human health and the environment because of stringent regulations and reduced public funding to develop products offering more benefits to society. While the debate about these and other questions related to the genetic engineering techniques of the first 20 years goes on, emerging genetic-engineering technologies are adding new complexities to the conversation. Genetically Engineered Crops builds on previous related Academies reports published between 1987 and 2010 by undertaking a retrospective examination of the purported positive and adverse effects of GE crops and to anticipate what emerging genetic-engineering technologies hold for the future. This report indicates where there are uncertainties about the economic, agronomic, health, safety, or other impacts of GE

crops and food, and makes recommendations to fill gaps in safety assessments, increase regulatory clarity, and improve innovations in and access to GE technology.

Membrane Structure

This classroom resource provides clear, concise scientific information in an understandable and enjoyable way about water and aquatic life. Spanning the hydrologic cycle from rain to watersheds, aquifers to springs, rivers to estuaries, ample illustrations promote understanding of important concepts and clarify major ideas. Aquatic science is covered comprehensively, with relevant principles of chemistry, physics, geology, geography, ecology, and biology included throughout the text. Emphasizing water sustainability and conservation, the book tells us what we can do personally to conserve for the future and presents job and volunteer opportunities in the hope that some students will pursue careers in aquatic science. Texas Aquatic Science, originally developed as part of a multi-faceted education project for middle and high school students, can also be used at the college level for non-science majors, in the home-school environment, and by anyone who educates kids about nature and water. The project's home on the web can be found at <http://texasaquaticscience.org>

Photosynthesis: the power plant and the chemical factory of life; Overall chemistry of Photosynthesis; Autotrophic and the heterotrophic ways of life; Overall energetics of photosynthesis; Solar energy and its utilization; Energetics of photosynthesis: a closer look; Taking photosynthesis apart: I the light and the dark stage; II photochemical activities of chloroplasts and chlorophyll solutions; Structure and composition of the photosynthetic apparatus; The photosynthetic pigments; Absorption of light and fate of excitation energy in plant cells; Action spectrum and quantum yield of photosynthesis; Energy transfer and energy migration in photosynthesis; The two photochemical systems; The red drop and the emerson effect; Difference spectroscopy: the role of the cytochromes, P700, P690, plastoquinone and plastocyanin; Fluorescence and the two pigment systems; Separation of the two pigment systems; The enzymatic paths from water to molecular oxygen and from carbon dioxide to carbohydrates.

Lisa Thompson's debut novel is a page-turning mystery with an emotionally-driven, complex character study at its core -- like *Rear Window* meets *The Curious Incident of the Dog in the Night-Time*. Matthew Corbin suffers from severe obsessive-compulsive disorder. He hasn't been to school in weeks. His hands are cracked and bleeding from cleaning. He refuses to leave his bedroom. To pass the time, he observes his neighbors from his bedroom window, making mundane notes about their habits as they bustle about the cul-de-sac. When a toddler staying next door goes missing, it becomes apparent that Matthew was the last person to see him alive. Suddenly, Matthew finds himself at the center of a high-stakes mystery, and every one of his neighbors is a suspect. Matthew is the key to figuring out what happened and

potentially saving a child's life... but is he able to do so if it means exposing his own secrets, and stepping out from the safety of his home?

Concepts of Biology

****This is the chapter slice "Changes in Saltwater Aquatic Ecosystems Caused By Human Activity Gr. 5-8" from the full lesson plan "Conservation: Waterway Habitat Resources"**. Students will become aware of aquatic ecosystems facing severe change around the globe. Our resource focuses on recognizing how climate change and human activities are affecting their delicate balances. Become an ecologist and list factors in an aquatic ecosystem as biotic or abiotic. Visit an aquatic ecosystem near your home and learn as much as you can through careful observations. Find out why some aquatic organisms have a hard time adapting to climate change. Explore the effects of human activity on aquatic ecosystems. Spend some time at your local aquarium to be a part of the aquatic ecosystem. Get a sense of what's to come as you look at the rate of extinction of marine species. Find out what we can do to restore aquatic dead zones. Written to Bloom's Taxonomy and STEAM initiatives, additional hands-on activities, graphic organizers, crossword, word search, comprehension quiz and answer key are also included.**

From his 1776 Pennsylvania homestead, thirteen-year-old Samuel, who is a highly-skilled woodsman, sets out toward New York City to rescue his parents from the band of British soldiers and Indians who kidnapped them after slaughtering most of their community. Includes historical notes.

Teaching Learners of English in Mainstream Classrooms is a unique resource designed to help K-8 classroom teachers integrate language learning into the content curriculum. This book helps teachers teach their grade level curriculum even though they may have English language learners in their classrooms. By using the strategies provided, teachers can promote content achievement for all of their students. Specifically written for content teachers, Linda New Levine and Mary Lou McCloskey's clear and friendly writing style emphasizes practical application of known second language learning principles. The authors offer classroom teachers practical strategies and tools to integrate content and language learning, accelerating the academic achievement of their students. Techniques for developing reading writing and speaking skills in the content areas are also emphasized.

****This is the chapter slice "Your Slice Of The Shared Footprint Gr. 5-8" from the full lesson plan "Reducing Your Own Carbon Footprint"**. Engage students in global climate change by personalizing their own carbon footprint. Our resource introduces students to the effects of global climate change and its human-related causes. Start with a detailed look at the greenhouse effect. Identify all the ways a kitchen uses energy. Break down the steps involved with farm to table and how each step adds to the carbon footprint. Calculate your travel footprint and learn ways to help reduce it. Understand that**

your carbon footprint doesn't lessen after throwing things out. Look at the bigger picture and calculate how your own carbon footprint fits with the community. Help reduce the carbon footprint by brainstorming ways to make environmentally-friendly rules part of the social contract. Written to Bloom's Taxonomy and STEAM initiatives, additional graphic organizers, carbon footprint calculator, crossword, word search, comprehension quiz and answer key are also included. Improve content-area reading with a variety of strategies and a wealth of information to help readers in Grades 3-5 improve their comprehension of nonfiction text. This book includes essential reading skills and strategies grouped into 8 categories including: Monitor Comprehension, Activate and Connect, Infer Meaning, Ask Questions, Determine Importance, Visualize, Summarize and Synthesize, and Developing Vocabulary. All of the skills and strategies are covered by providing practical teaching guidelines as well as motivating learner activities. The included Resource CD features graphic organizers and activities pages that can be reproduced and modified. 280pp. + Resource CD

Homo Deus: A Brief History of Tomorrow by Yuval Noah Harari | Book Summary | Readtrepreneur (Disclaimer: This is NOT the original book. If you're looking for the original book, search this link: <http://amzn.to/2t3cUk3>) Mankind is undoubtedly one interesting species. We have managed to overcome and even come up with solutions to major world problems like famine, plague, and war. This book Homo Deus discusses the evolution of man over the years; from simple-minded beings who believed in God to intelligent man who questions God's existence and would rather rely on Science and data computation to get their answers. (Note: This summary is wholly written and published by readtrepreneur.com It is not affiliated with the original author in any way) "History began when humans invented gods, and will end when humans become gods." - Yuval Noah Harari Homo Deus tells us of the journey throughout man's quest for power as they attempt to become more godlike, and the reasons behind why they could accomplish so much. Humankind has always thought of themselves as more superior than the other species and believed that their existence has great meaning and meant for a higher purpose. P.S. Open your eyes and mind as you learn more about our own species - mankind. As we read along, Homo Deus will make us ponder - Are we really that great as we think? Are we bettering ourselves, or self-destructing? P.P.S. This is a ZERO-RISK investment. Should you find this book unworthy of the original coffee price of \$3.99, get a REFUND within 7 days! The Time for Thinking is Over! Time for Action! Scroll Up Now and Click on the "Buy now with 1-Click" Button to Download your Copy Right Away! Why Choose Us, Readtrepreneur? Highest Quality Summaries Delivers Amazing Knowledge Awesome Refresher Clear And Concise Disclaimer Once Again: This book is meant for a great companionship of the original book or to simply get the gist of the original book. If you're looking for the original book, search for this link: <http://amzn.to/2t3cUk3>

Considers the features common to bacteria that need light to grow, focusing on those features important in nature and useful in industrial applications. Because the species are scattered across the taxonomic chart, they have little in common except the physiology of photosynthesis and ecological dis

Instead of being rescued from a plane crash, as in the author's book "Hatchet," this story portrays what would have happened to

Brian had he been forced to survive a winter in the wilderness with only his survival pack and hatchet.

Concepts of Biology is designed for the single-semester introduction to biology course for non-science majors, which for many students is their only college-level science course. As such, this course represents an important opportunity for students to develop the necessary knowledge, tools, and skills to make informed decisions as they continue with their lives. Rather than being mired down with facts and vocabulary, the typical non-science major student needs information presented in a way that is easy to read and understand. Even more importantly, the content should be meaningful. Students do much better when they understand why biology is relevant to their everyday lives. For these reasons, Concepts of Biology is grounded on an evolutionary basis and includes exciting features that highlight careers in the biological sciences and everyday applications of the concepts at hand. We also strive to show the interconnectedness of topics within this extremely broad discipline. In order to meet the needs of today's instructors and students, we maintain the overall organization and coverage found in most syllabi for this course. A strength of Concepts of Biology is that instructors can customize the book, adapting it to the approach that works best in their classroom. Concepts of Biology also includes an innovative art program that incorporates critical thinking and clicker questions to help students understand--and apply--key concepts.

Properly crafted and individually tailored feedback on student work boosts student achievement across subjects and grades. In this updated and expanded second edition of her best-selling book, Susan M. Brookhart offers enhanced guidance and three lenses for considering the effectiveness of feedback: (1) does it conform to the research, (2) does it offer an episode of learning for the student and teacher, and (3) does the student use the feedback to extend learning? In this comprehensive guide for teachers at all levels, you will find information on every aspect of feedback, including

- Strategies to uplift and encourage students to persevere in their work.
- How to formulate and deliver feedback that both assesses learning and extends instruction.
- When and how to use oral, written, and visual as well as individual, group, or whole-class feedback.
- A concise and updated overview of the research findings on feedback and how they apply to today's classrooms.

In addition, the book is replete with examples of good and bad feedback as well as rubrics that you can use to construct feedback tailored to different learners, including successful students, struggling students, and English language learners. The vast majority of students will respond positively to feedback that shows you care about them and their learning. Whether you teach young students or teens, this book is an invaluable resource for guaranteeing that the feedback you give students is engaging, informative, and, above all, effective.

Carl Hiaasen takes us deep in the Everglades with an eccentric eco-avenger, a ticked-off panther, and two kids on a mission to find their missing teacher. Florida—where the animals are wild and the people are wilder! Bunny Starch, the most feared biology teacher ever, is missing. She disappeared after a school field trip to Black Vine Swamp. And, to be honest, the kids in her class are relieved. But when the principal tries to tell the students that Mrs. Starch has been called away on a "family emergency," Nick and Marta just don't buy it. No, they figure the class delinquent, Smoke, has something to do with her disappearance. And he does! But not in the way they think. There's a lot more going on in Black Vine Swamp than any one player in this twisted tale can

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see. It's all about to hit the fan, and when it does, the bad guys better scat. "Ingenious . . . Scat won't disappoint Hiaasenphiles of any age." —The New York Times "Woohoo! It's time for another trip to Florida—screwy, gorgeous Florida, with its swamps and scammers and strange creatures (two- and four-legged). Our guide, of course, is Carl Hiaasen." —DenverPost.com

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