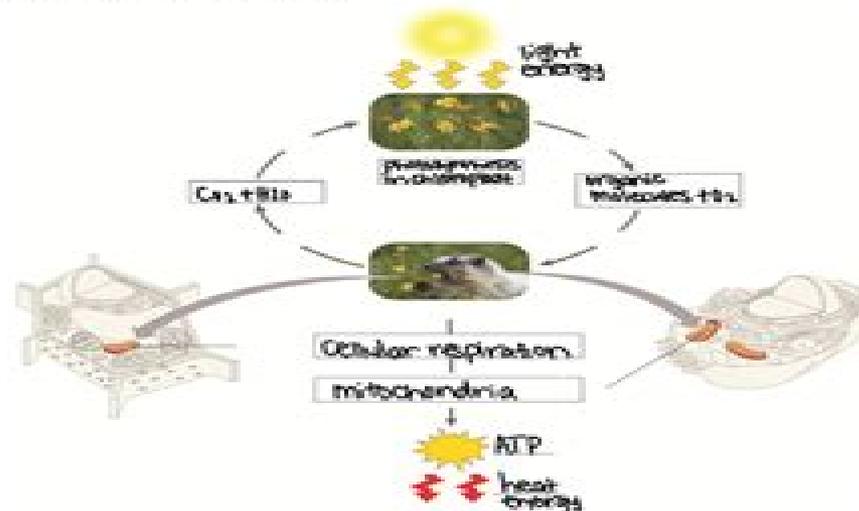


## Chapter 9: Cellular Respiration and Fermentation

- 9.1 Explain how the redox reactions of catabolic pathways yield energy by oxidizing organic fuels.
- 9.2 Trace the pathway of glucose oxidation during glycolysis.
- 9.3 Describe the oxidation of pyruvate and the process by which further oxidation occurs in the citric acid cycle.
- 9.4 Identify the steps of oxidative phosphorylation and account for the total ATP produced per glucose molecule during cellular respiration.
- 9.5 Name two types of fermentation and explain how they result in ATP production.
- 9.6 Use examples to illustrate the interactions of glycolysis and the citric acid cycle with other metabolic pathways.

Although this is a challenging topic, it will give you the background necessary to understand much about energy transfer at the cellular level. Each concept builds on the previous concept, so take your time working through the figures and text, and you will find you have mastered a difficult area of biology when you finish.

**Study Tip:** Before getting involved with the details of cellular respiration, take a second to look at the big picture as shown in Figure 9.1. Both photosynthesis (the topic for Chapter 10) and cellular respiration are key ecological concepts involved with energy flow. Use Figure 9.1 to label the indicated parts in the following figure.



# Chapter 9 Cellular Respiration Packet

**Albert Kaskel**



## **Chapter 9 Cellular Respiration Packet:**

**Egan's Fundamentals of Respiratory Care E-Book** Robert M. Kacmarek, James K. Stoller, Albert J. Heuer, 2019-12-18  
Textbook and Academic Authors Association TAA McGuffey Longevity Award Winner 2024 Learn the principles and skills you'll need as a respiratory therapist Egan's Fundamentals of Respiratory Care 12th Edition provides a solid foundation in respiratory care and covers the latest advances in this ever-changing field Known as the bible for respiratory care this text makes it easy to understand the role of the respiratory therapist the scientific basis for treatment and clinical applications Comprehensive chapters correlate to the 2020 NBRC Exam matrices preparing you for clinical and exam success Written by noted educators Robert Kacmarek James Stoller and Albert Heuer this edition includes new chapters on heart failure as well as ethics and end of life care plus the latest AARC practice guidelines Updated content reflects the newest advances in respiratory care preparing you to succeed in today's health care environment UNIQUE Mini Clinis provide case scenarios challenging you to use critical thinking in solving problems encountered during actual patient care Decision trees developed by hospitals highlight the use of therapist-driven protocols to assess a patient initiate care and evaluate outcomes Rules of Thumb highlight rules formulas and key points that are important to clinical practice Learning objectives align with the summary checklists highlighting key content at the beginning and at the end of each chapter and parallel the three areas tested on the 2020 NBRC Exam matrices Learning resources on the Evolve companion website include an NBRC correlation guide image collection lecture notes Body Spectrum electronic anatomy coloring book and an English Spanish glossary Student workbook provides a practical study guide reflecting this edition of the text offering numerous case studies experiments and hands-on activities Available separately Full color design calls attention to the text's special features and promotes learning Glossary includes key terms and definitions needed for learning concepts NEW Heart Failure chapter covers the disease that is the most frequent cause of unscheduled hospital admissions NEW Ethics and End of Life Care chapter explains related issues and how to help patients and their families NEW Improved readability makes the text easier to read and concepts easier to understand NEW Updated practice guidelines from the AARC American Association for Respiratory Care are included within the relevant chapters NEW Updated chapters include topics such as arterial lines stroke ACLS PALS hemodynamics polysomnography waveform interpretation and laryngectomy NEW Streamlined format eliminates redundancy and complex verbiage

**Prentice Hall Physical Science Concepts in Action Program Planner National Chemistry Physics Earth Science**, 2003-11 Prentice Hall Physical Science Concepts in Action helps students make the important connection between the science they read and what they experience every day Relevant content lively explorations and a wealth of hands-on activities take students' understanding of science beyond the page and into the world around them Now includes even more technology tools and activities to support differentiated instruction [Chapter Resource 5 Photosynthesis/Cell Response Biology](#) Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004

**Essentials of Anatomy and Physiology** Valerie C. Scanlon, Tina Sanders, 1999 Rely on this bestselling textbook and its accompanying workbook to provide classroom ready learning for all nursing and allied health students **Postharvest Physiology and Pathology of Vegetables** Jerry A. Bartz, Jeffrey K. Brecht, 2002-12-04 Focusing exclusively on postharvest vegetable studies this book covers advances in biochemistry plant physiology and molecular physiology to maximize vegetable quality The book reviews the principles of harvest and storage factors affecting postharvest physiology calcium nutrition and irrigation control product quality changes during handling and storage technologies to improve quality spoilage factors and biocontrol methods and storage characteristics of produce by category It covers changes in sensory quality such as color texture and flavor after harvest and how biotechnology is being used to improve postharvest quality Teacher's Wraparound Edition: Twe Biology Everyday Experience Albert Kaskel, 1994-04-19 Lower Secondary Science Teacher's Guide: Stage 8 (Collins Cambridge Lower Secondary Science) Collins, 2022-02-03 Inspire and engage your students with this Lower Secondary Science course from Collins offering comprehensive coverage of the new curriculum framework including suggested practical investigations and Thinking and Working Scientifically skills *The American Biology Teacher*, 2005 Holt Science and Technology Holt Rinehart & Winston, 2004-02 **The Sciences** James Trefil, Robert M. Hazen, 1995 Organized around a series of 24 scientific concepts or great ideas this book begins with the idea that the universe can be studied by observation and experiment Encompasses physics chemistry astronomy biology and earth sciences focusing on general principles and their application to real world situations rather than esoteric detail Integrates the sciences rather than treating them separately Offers students the ability to place major public issues such as the environment energy and medical advances in a scientific context Also examines social or philosophical issues related to science such as the Human Genome Project and nuclear waste disposal **Designing Farms in Space** Bryce L. Meyer, 2026-01-01 The future of space exploration space stations and space settlements hinges on our ability to grow tasty nutritious foods as part of efficient long term recycling the air water and wastes This book provides a walkthrough of the chemistry biology machinery plants animals and engineering required to make these synthetic ecologies possible with realistic foods current technologies and real crops Plentiful diagrams and illustrations dozens of tables and simple processes allow a variety of professions and backgrounds to estimate and understand the principles of farming in space Tables have rules of thumb that can quickly contribute to space proposals This book will be a key resource at the elbow of business professionals engineers space architects and space students The book also includes a story to show what it is like to work in a space farm menus and meals from the farm and future work to bridge the technological gaps to bring long term space ideas to fruition **Te HS&T a** Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004-02 *The Science Teacher*, 2007 SCC Library has 1964 cur **Concepts of Biogeography & Astronomy Parent Lesson Planner**, 2014-03-18 Concepts of Biogeography materials for each semester are independent of one another to allow flexibility Semester 1 Biogeography It has been said that our planet is

really just an insignificant speck in a vast universe but that's not true. In fact, the conditions for life found on Earth are supremely unique and make our life here comfortable. This, despite the reality that the world around us is also tainted and in need of careful calibration to continue. This book opens a window to the spectacular environments found on our planet, from deserts to the tropics. Researcher and biologist Dr. Gary Parker brings his vast knowledge of ecology to a teaching setting, exploring and explaining ecosystems, population growth, habitats, adaptations, energy problems, and much more. Learn about insect control in California, why mammals have fur, and how sharks maintain friendships with small fish known as remora. *Exploring the World Around You* brings the varieties of our planet's habitats alive to the reader. Semester 2 Astronomy: Think you know all there is to know about our solar system? You might be surprised at some of the amazing details that you find when you begin *Exploring the World of Astronomy*. From the rugged surface of the moon to the distant and mysterious constellations, this book provides an exciting educational tour for students of different ages and skill levels. Learn about a blue moon, the 400-year storm on Jupiter, and what is meant by the zone of life. Discussion, ideas, questions, and research opportunities help expand this great resource on observational astronomy into an unforgettable educational course for middle school to high school students. *The HS&T J*, Holt, Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004-02

*Review of Physiological Chemistry*, Harold Anthony Harper, 1979. *Clinical Anatomy and Physiology for Veterinary Technicians*, Thomas P. Colville, Joanna M. Bassert, 2015-03-19. Start your veterinary technician education off on the right foot with *Clinical Anatomy and Physiology for Veterinary Technicians*, 3rd Edition. Combining expert clinical coverage with engaging writing and vivid illustrations, this popular text is the key to helping you understand the anatomic and physiologic principles that will carry you throughout your career. In addition to its comprehensive coverage of the diverse ways in which animal bodies function at both the systemic and cellular levels, the new third edition features a variety of helpful application boxes, vocabulary lists, and Test Yourself questions in every chapter to ensure you have a firm grasp of anatomic structure and its relevance to clinical practice. High-quality, full-color illustrations highlight the details of anatomic structure to enhance understanding of anatomy functions. Chapter outlines summarize the contents of each chapter at the major concept level. Clinical Application boxes throughout the text demonstrate the clinical relevance of anatomic and physiologic principles. Test Yourself questions recap important information that appeared in the preceding section. Comprehensive glossary at the end of the text provides concise definitions and phonetic pronunciations of terms. NEW Vocabulary Fundamentals list of terms at the beginning of each chapter introduces readers to new scientific terms and their pronunciations. *Science Insights*, 1999

**Illinois Chemistry Teacher**, 2007. *A Photographic Atlas for the Zoology Laboratory*, Kent M. Van De Graaff, John L. Crawley, 1998

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web nov 2 2018 multiple choice questions can be written at a dok 3 or 4 level however to design a question in this format is difficult an item at dok level 3 or 4 requires complex reasoning strategic and extended thinking about the concepts of the content and a real world context and especially at a level 4 that requires research investigation and

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web jan 13 2020 3 describe the 7 different types of quadrilaterals along with diagrams 4 discern the derivative of  $f(x)$  5 fill in the blanks with appropriate numbers x 2 3 dok level 3 connect the highlighted points and calculate the areas of all the triangles rectangles and squares that are possible

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web at dok level 3 the depth of knowledge questions for science should focus on a concept that has more than one possible answer at dok 3 students will design investigations around scientific questions evaluate models of engineering solutions justify conclusions based on experimental data with reasoning and evidence dok 4

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web level 3 strategic thinking requires reasoning planning using evidence and a higher level of thinking than the previous two levels in most instances requiring students to explain their thinking is a level 3 activities that require students to make conjectures are also at this level the cognitive demands at level 3 are complex and abstract

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web dok 3 use information or conceptual knowledge two or more steps etc students have practiced these skills with assistance from kindergarten to second grade and on their own since third grade questions that lie at dok 1 necessitate only memorization and recall and so do not promote

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web if there is a question regarding which of two levels a standard addresses such as level 1 level 2 or level 2 level 3 it is appropriate to assign the highest level as the dok ceiling for the task but also provide opportunities at the lower dok levels as an instructional progression e g summarizing a text dok 2 before

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outline and re iterate the main points of a recent lesson

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web dok 1 recall and reproduce dok 2 basic application of skills and concepts dok 3 strategic reasoning dok 4 extended reasoning the questions you can ask in each strand are easy to

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web apr 19 2019 they soon discovered that there weren t very many dok 4 questions those are really high level tasks some of them needed hints they noticed that there weren t any dok level 3 questions in kindergarten a lot of them had trouble deciding if the questions was a 2 or a 3

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web dec 3 2019 each column explores one of eight topics rounding adding 3 digit numbers subtracting 3 digit numbers multiplying multiples of ten fractions on a number line multiplying and dividing within 100 operations with time and area and perimeter you ll notice that the first problem in the column is traditional and familiar

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web dok level 4 extended thinking this is the most advanced stage of the depth of knowledge framework and involves students making a significant cognitive effort it encourages students to gather information from multiple resources to solve a specific problem it also motivates them to know the how and why of things

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web 1 how will you plan to use this in your classroom during whole group or small group instruction and why 2 when do you see the need to use dok question level 3 and dok question level 4 in your classroom 3 looking at your content and standard s objectives create 3 4 questions using dok level 3 and dok level 4

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