

Study Guide

CHAPTER 8

Section 3: Cellular Respiration

In your textbook, read about cellular respiration and glycolysis.

Use each of the terms below only once to complete the passage.

~~aerobic~~ ~~anaerobic~~ ~~ATP~~ ~~cellular respiration~~ ~~cytoplasm~~ ~~energy~~
~~glucose~~ ~~glycolysis~~ ~~mitochondria~~ ~~NADH~~ ~~oxygen~~

Organisms obtain energy in a process called (1) Cellular respiration. This process harvests electrons from carbon compounds, such as (2) glucose, and uses that energy to make (3) ATP. ATP is used to provide (4) energy for cells to do work. In (5) glycolysis, glucose is broken down into pyruvate. Glycolysis is a(n) (6) anaerobic process because it does not require oxygen. Glycolysis takes place in the (7) cytoplasm. Two molecules of ATP and two molecules of (8) NADH are formed for every glucose molecule that is broken down. (9) Aerobic respiration takes place in the (10) mitochondria. It is aerobic because the process requires (11) oxygen.

Refer to the diagram of glycolysis. Label the steps in the description to match the diagram.

12. Step 4. Each three-carbon compound is converted into a three-carbon pyruvate.
13. Step 2. A six-carbon compound is broken down into two three-carbon compounds.
14. Step 1. Phosphate groups from two ATP molecules are transferred to a glucose molecule.
15. Step 3. Two NADH molecules and four ATP molecules are produced.

Respond to each question.

16. Interpret How many total ATP molecules are produced from the glycolysis of one six-carbon glucose?
2 net ATP, 4 are produced.
17. Explain Why is there a net gain of only two ATP molecules in the glycolysis of one six-carbon glucose?
4 are produced, but 2 are used to for ADP + P; so a net gain of 2 ATP



Pearson Education Study Guide Answer Key

Rosina Ehmann



Pearson Education Study Guide Answer Key:

Students Study Guide Fredeen, Pearson, 2003-07

The Official CHFI Study Guide (Exam 312-49) Dave

Kleiman, 2011-08-31 This is the official CHFI Computer Hacking Forensics Investigator study guide for professionals studying for the forensics exams and for professionals needing the skills to identify an intruder's footprints and properly gather the necessary evidence to prosecute. The EC Council offers certification for ethical hacking and computer forensics. Their ethical hacker exam has become very popular as an industry gauge and we expect the forensics exam to follow suit. Material is presented in a logical learning sequence; a section builds upon previous sections and a chapter on previous chapters. All concepts simple and complex are defined and explained when they appear for the first time. This book includes Exam objectives covered in a chapter are clearly explained in the beginning of the chapter. Notes and Alerts highlight crucial points. Exam's Eye View emphasizes the important points from the exam's perspective. Key Terms present definitions of key terms used in the chapter. Review Questions contains the questions modeled after real exam questions based on the material covered in the chapter. Answers to the questions are presented with explanations. Also included is a full practice exam modeled after the real exam. The only study guide for CHFI provides 100% coverage of all exam objectives. CHFI Training runs hundreds of dollars for self tests to thousands of dollars for classroom training. *Student Study Guide* Ellen G.

Cohn, Pearson, 2005-04

Making Better Sentences

Rebecca Vickers, 2013-06-20 This handy engaging and gently humorous guide tackles the important subject of sentence construction. It looks at a variety of topics such as sentence types, clauses and phrases and shows how sentence structure can be used to convey complete ideas clearly in a range of text types and genres.

Illustrated Study Guide for the NCLEX-RN® Exam JoAnn Zerwekh, Jo Carol Claborn, 2010-01-05 Fun and engaging this must-have review resource covers the nursing concepts and content found on the latest NCLEX RN examination. It features a concise outline format that's perfect for studying as well as 2,020 review questions to test your knowledge and help you prepare for the exam. Colorful illustrations and mnemonic cartoons clarify essential nursing concepts and offer a visual way for you to remember key facts for the NCLEX exam. Answers and rationales are provided for every practice question. Unique An integrated systems approach incorporates pediatric, adult and older adult lifespan considerations in each body system chapter. Unique Mnemonic cartoons provide a fun, easy way to review and remember key nursing concepts. A full-color user-friendly design enhances content and helps you quickly locate special features. Appendixes for each chapter summarize medications and nursing procedures for quick reference. Practice questions at the end of each chapter and on the companion CD 2,020 in all provide a wealth of NCLEX examination preparation in both print and electronic formats. The companion CD features practice questions available in both study and quiz exam modes that are divided by content area and allow you to create a customized review experience based on your personal study needs. Electronic alternate item format questions on the CD such as priority drag and drop and hot spot illustrated point and click questions prepare you for the interactive question.

types you'll encounter on the computerized NCLEX examination. Answers and rationales for all review questions help you understand why correct answers are right and incorrect options are wrong. An Alert feature highlights key nursing concepts frequently found on the NCLEX examination. Separate chapters on pharmacology and nursing management help you focus on these areas of emphasis on the NCLEX examination. Additional practice questions raise the total to 2,020 in the book and on the companion CD. More figures, charts, and cartoons further illustrate important anatomy, procedures, and disease processes. Application and analysis questions challenge you to use your critical thinking skills and closely mirror the types of questions on the NCLEX RN examination. UNIQUE: A pediatric disorders icon makes it easy to distinguish pediatric disorders from adult disorders in chapters with system-integrated content. The detailed table of contents includes disorder headings to help you quickly find information on specific disorders within system-integrated content.

Working at a Small-to-Medium Business or ISP, CCNA Discovery Learning Guide Allan Reid, Jim Lorenz, 2008-04-28

Working at a Small to Medium Business or ISP CCNA Discovery Learning Guide is the official supplemental textbook for the Working at a Small to Medium Business or ISP course in the Cisco Networking Academy CCNA Discovery curriculum version 4.1. The course, the second of four in the new curriculum, teaches networking concepts by applying them to a type of network you might encounter on the job in a small to medium business or ISP. After successfully completing the first two courses in the CCNA Discovery curriculum, you can choose to complete the CCENT Cisco Certified Entry Network Technician certification exam, which would certify that you have developed the practical skills required for entry-level networking support positions and have an aptitude and competence for working with Cisco routers, switches, and Cisco IOS Software. The Learning Guide, written and edited by instructors, is designed as a portable desk reference to use anytime, anywhere, to reinforce the material from the course and organize your time. In addition, the book includes expanded coverage of CCENT/CCNA exam topics. The book's features help you focus on important concepts to succeed in this course:

- Chapter Objectives:** Review core concepts by answering the focus questions listed at the beginning of each chapter.
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- The Glossary:** Defines each key term.
- Summary of Activities and Labs:** Maximize your study time with this complete list of all associated exercises at the end of each chapter.
- Check Your Understanding:** Evaluate your readiness with the end-of-chapter questions that match the style of questions you see in the online course quizzes. The answer key explains each answer.
- Challenge Questions and Activities:** Apply a deeper understanding of the concepts with these challenging end-of-chapter questions and activities. The answer key explains each answer.
- Hands-on Labs:** Master the practical, hands-on skills of the course by performing all the tasks in the course labs and additional challenge labs included in Part II of the Learning Guide.

Allan Reid is the curriculum lead for CCNA and a CCNA and CCNP instructor at the Centennial College/CATC in Toronto, Canada. Jim Lorenz is an instructor and curriculum developer for the Cisco Networking Academy. How To Look for this icon to

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Foundations of Earth Science Study Guide Edward J. Tarbuck, 2001-02-15
Includes Learning Objectives, Chapter Review, Chapter Outline, Vocabulary Review, Key Terms, Comprehensive Review, and Practice Tests.

Pearson Edexcel A Level Global Politics Robert Murphy, John Jefferies, Josie Gadsby, Eric Magee, 2022-03-25
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Educational Psychology for Learning and Teaching Dr Sue Duchesne, Dr Anne McMaugh, 2018-10-01
Educational Psychology for Learning and Teaching introduces key theories of development and learning to help you understand how learners learn and how educators can be more effective in their teaching practice. Featuring current research on the various dimensions of learning and teaching alongside traditional theories, it provides a clear framework of theory and evidence that supports modern education practices. Taking a comprehensive approach, this text investigates how to apply psychology principles to education contexts to enhance learning and teaching quality, particularly for accommodating individual student needs. This wholly Australian and New Zealand text caters for those who are planning to work with any age range from early childhood to adolescence and beyond. With a greater focus on resilience in education settings, the discussion of creativity alongside intelligence and a broader discussion on diversity, this new edition is up to date for the pre-service teacher. New print versions of this book come with bonus online study tools on the CourseMate Express and Search Me platforms. Premium online teaching and learning tools are available to purchase on the MindTap platform. Learn more about the online tools: [cengage.com/au/learning/solutions](https://www.cengage.com/au/learning/solutions).

Woodcock-Johnson IV Nancy Mather, Lynne E. Jaffe, 2016-01-22
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