

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?
to 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



Chapter 9 Cellular Respiration Chemical Pathways

Answer Key

**Caroline Bowsher, Martin Steer, Alyson
Tobin**



Chapter 9 Cellular Respiration Chemical Pathways Answer Key:

Concepts in Biology' 2007 Ed.2007 Edition , Student Study Guide to accompany Alcamo's Fundamentals of Microbiology Jeffrey C. Pommerville,2010-08-10 The Student Study Guide to accompany Alcamo's Fundamentals of Microbiology Ninth Edition contains important information to help you study take effective class notes prepare properly for exams and even to manage your time effectively The Study Guide also contains over 3 000 practice exercises and study questions of various types to help you learn and retain the information in the text *Formal Ontology in Information Systems* P. Garbacz,O. Kutz,2014-09-05 Formal Ontology in Information Systems FOIS is the flagship conference of the International Association for Ontology and its Applications IAOA Its interdisciplinary research focus lies at the intersection of philosophical ontology linguistics logic cognitive science and computer science as well as in the applications of ontological analysis to conceptual modeling knowledge engineering knowledge management information systems development library and information science scientific research and semantic technologies in general As in previous years FOIS 2014 was a nexus of interdisciplinary research and communication The current proceedings is divided into four main sections dealing with foundations processes agency and dispositions methods and tools and applications The last of these covers a broad spectrum of areas including in particular biology and medicine engineering and economy For the first time in its history the conference hosted a special track an ontology competition the aim of which was to encourage authors to make their ontologies publicly available and to allow them to be evaluated according to a set of predetermined criteria Papers discussing these ontologies can also be found in this volume The book will be of interest to all those whose work involves the application of ontologies and who are looking for a current overview of developments in formal ontology Ebook: Biology BROOKER,2014-09-16 Ebook Biology Alcamo's Fundamentals of Microbiology , Biology Gerhart Campbell,2000-09 **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 **Life: The Science of Biology** David E. Sadava,H. Craig Heller,Gordon H. Orians,William K. Purves,David M. Hillis,2012-12-10 From its first edition Life has set the standard for experiment based

introductory biology texts There is no stronger textbook for helping students understand not just what we know scientific facts but how we know it the experimental process that leads to their discovery The new edition of Life builds upon this tradition teaching fundamental concepts and showcasing significant research while responding to changes in biology education

Plant Biochemistry Caroline Bowsher, Martin Steer, Alyson Tobin, 2008-04-01 Plant Biochemistry presents each topic from the cellular level to the ecological and environmental levels placing it in the context of the whole plant Biochemical pathways are represented as route maps showing how one reaction follows another These maps emphasize the dynamism and flexibility of the plant in the face of environmental challenges The unique and wide ranging approach of this book emphasizes the importance of teaching and learning pathways within the framework of what the pathway does and why it is needed Plant Biochemistry is invaluable to undergraduate students who wish to gain insight into the relevance of plant biochemistry to humans and animals It is an ideal reference text for graduates and researchers

Critical Care Transport American Academy of Orthopaedic Surgeons (AAOS), American College of Emergency Physicians (ACEP), 2009-11-09 Welcome to the new gold standard in critical care transport training Published in conjunction with the American Academy of Orthopaedic Surgeons AAOS and the American College of Emergency Physicians ACEP Critical Care Transport offers cutting edge content relevant to any healthcare provider training in critical care transport Like no other textbook in this market Critical Care Transport thoroughly prepares medical professionals to function as competent members of a critical care team by covering the material that everyone paramedics nurses physicians and specialty crew needs to know to operate effectively in the prehospital critical care environment This book meets the curricula of major critical care training programs including University of Maryland Baltimore County UMBC It covers both ground and flight transport and meets the objectives of critical care transport certification exams such as the Certified Flight Paramedic FP C exam administered by the Board for Critical Care Transport Paramedic Certification Content includes information specific to prehospital critical care transport such as flight physiology lab analysis hemodynamic monitoring and specialized devices such as the intra aortic balloon pump Standard topics such as airway management trauma and pharmacology are covered in the context of critical care Chapters have been authored by leading critical care professionals across the country and represent the most current state of the art information on management of critical care patients

Study Guide for Man, Nature, and Society Theodore W. Pohrte, L. Jack Pierce, 1975

Critical Care Transport American Academy of Orthopaedic Surgeons, American College of Emergency Physicians, 2009-11-13 Welcome to the new gold standard in critical care transport training Published in conjunction with the American Academy of Orthopaedic Surgeons AAOS and the American College of Emergency Physicians ACEP Critical Care Transport offers cutting edge content relevant to any healthcare provider training in critical care transport Like no other textbook in this market Critical Care Transport thoroughly prepares medical professionals to function as competent members of a critical care team by covering the material that everyone paramedics nurses physicians and specialty crew needs to

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Brock Biology of Microorganisms Michael T. Madigan, 2009 Three new chapters focus on the rapidly developing fields of archaeal and eukaryotic molecular biology biotechnology and immunology in host defense and disease Page viii *Biology* Daniel D. Chiras, 1993 *Biology Today* David L. Kirk, 1975 This book contains history of biology study the study of life biological behavior and human biology *Inquiry Into Life* Sylvia S. Mader, 2008 G Mrs T Peterson 5 2008

Environmental Science William P. Cunningham, Barbara Woodworth Saigo, 1999 Introducing students to environmental science without any prerequisites this text has a strong global emphasis and recognizes that the world is a unified biosphere that doesn't adhere to artificial political boundaries Topics covered include the Greenhouse Effect the Clean Air Act and El Nino *Study Guide* George Karleskint, 1991

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