

Study Guide

CHAPTER 8

Section 1: How Organisms Obtain Energy

In your textbook, read about how organisms obtain energy.

Match the definition in Column A with the term in Column B.

Column A

- C 1. the idea that energy cannot be created or destroyed
- E 2. all the chemical reactions in a cell
- F 3. anabolic pathway that converts energy from the Sun to chemical energy for use by cells
- A 4. ability to do work
- H 5. series of chemical reactions in which the product of one reaction is the substrate for the next reaction
- I 6. biological molecule that provides chemical energy
- B 7. study of the flow and transformation of energy
- J 8. source of nearly all energy for life
- G 9. catabolic pathway that breaks down organic molecules
- D 10. spontaneous increase in disorder, or entropy

Column B

- A. energy
- B. thermodynamics
- C. first law of thermodynamics
- D. second law of thermodynamics
- E. metabolism
- F. photosynthesis
- G. cellular respiration
- H. metabolic pathway
- I. adenosine triphosphate (ATP)
- J. sunlight

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

aerobic
glucose

anaerobic
glycolysis

ATP
mitochondria

cellular respiration
NADH

cytoplasm
oxygen

energy

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.

Chapter 9 Energy In A Cell Assessment Answers

Gerald L. Kellogg, Starr



Chapter 9 Energy In A Cell Assessment Answers:

Energy Abstracts for Policy Analysis, 1983 Mosby's *Comprehensive Review of Nursing for the NCLEX-RN® Examination* Patricia M. Nugent, Judith S. Green, Mary Ann Hellmer Saul, Phyllis K. Pelikan, 2011-11-08 A classic resource that has helped nurses pass the NCLEX exam for over 60 years Mosby's *Comprehensive Review of Nursing for the NCLEX RN Examination* 20th Edition is fully updated to reflect the newest NCLEX RN test plan Content review is presented in a concise and full color outline format organized by the core areas of medical surgical pediatric maternity women's health and mental health nursing with a practice test following each unit More than 4 200 practice questions and rationales including more than 600 questions in the newest alternate item formats are written by a team of trusted NCLEX experts led by author Patricia M Nugent This title includes additional digital media when purchased in print format For this digital book edition media content may not be included McGraw-Hill Education Preparation for the GED Test, Fourth Edition McGraw Hill Editores, México, 2021-03-19 Essential review and practice for all subject areas of the GED test This book covers all four subjects on the test Reasoning Through Language Arts RLA Social Studies Science and Mathematical Reasoning and provides intensive review and practice Pretests for each subject area will help you identify your strengths and weaknesses before starting your studies Learning objectives are based on the Common Core State Standards just like the real exam Extensive review questions are supplemented by two full length sample tests two in the book and two more on the app This new edition will show you how to master the test's new questions involving critical thinking and reasoning Features New Review questions on critical thinking and reasoning match latest test New Micro lessons section provides unique test taking strategies New Appendix covers the most important vocabulary for each section of the test 2 full length practice tests Step by step review of each of the test's main sections Reasoning Through Language Arts Mathematical Reasoning Science and Social Studies Top 25 lists that cover the most important concepts for each test subject Learning objectives based on the Common Core State Standards allowing you to use the book for all high school equivalency exams Two Score Raising Apps The Practice Test App provides two additional sample GED tests The Flashcard App includes 100 flashcards to help students review all four test sections **Study Guide for 31840 - Biology-First Edition** Neil A. Campbell, 1987 *McGraw-Hill Education Preparation for the GED Test, Third Edition* McGraw Hill Editores, México, 2018-04-27 Covering all subjects on the GED test this invaluable guide gives you the essential review and practice needed to succeed on the exam With more than 125 years of experience in education McGraw Hill is the name you trust to deliver results This MH guide to the GED is the most comprehensive and relevant prep tool on the market Inside this book you will find 2 full length practice tests A step by step review of the concepts essential to each of the test's 4 sections Reasoning Through Language Arts Mathematical Reasoning Science and Social Studies TOP 25 lists that tell you the most important concepts you need to know for each test's section Unique test taking strategies to help you avoid the test maker's traps Tools to help you approach specific questions

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Energy Abstracts for Policy Analysis ,1983

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Telecourse Cycles of Life Gerald L.

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