

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.

Photosynthesis Study Guide Answer Key Lesson 11

Albert Kaskel



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Biology I Alfred E. Zietlow, 1963 *Teacher's Wraparound Edition: Two Biology Everyday Experience* Albert Kaskel, 1994-04-19 **Resources in Education**, 1994 *Bihar School Examination Board, Patna Bihar Stet Secondary Teacher Eligibility Test Study Guide Teaching Aptitude & Other Proficiency* Dr. Ranjit Kumar Singh, IAS (AIR-49), 2023-12-21

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allow flexibility Semester 1 Oceans The oceans may well be earth's final frontier These dark and sometimes mysterious waters cover 71 percent of the surface area of the globe and have yet to be fully explored Under the waves a watery world of frail splendor foreboding creatures and sights beyond imagination awaits The Ocean Book will teach you about giant squid and other monsters of the seas centuries of ocean exploration hydrothermal vents the ingredients that make up the ocean harnessing the oceans energy icebergs coral reefs ships submarines and other ocean vessels the major ocean currents El Niño whirlpools and hurricanes harvesting the ocean's resources whales dolphins fish and other sea creatures Learning about the oceans and their hidden contents can be exciting and rewarding The abundance and diversity of life the wealth of resources and the simple mysteries there have intrigued explorers and scientists for centuries A better understanding of our oceans ensures careful conservation of their grandeur and beauty for future generations and lead to a deeper respect for the delicate balance of life on planet Earth Semester 2 Ecology Study the relationship between living organisms and our place in God's wondrous creation Learn important words and concepts from different habitats around the world to mutual symbiosis as a product of the relational character of God This is a powerful biology focused course specially designed for multi age teaching Students will Study the intricate relationship between living organisms and our place in God's wondrous creation Examine important words and concepts from different habitats around the world to our stewardship of the world's resources Gain insight into influential scientists and their work More fully understand practical aspects of stewardship Investigate ecological interactions and connections in creation The Ecology Book encourages an understanding of a world designed not as a series of random evolutionary accidents but instead as a wondrous well designed system of life around the globe created to enrich and support its different features Activities provide additional ways to make the learning experience practical

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