

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.

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