

Chapter

9

Energy in a Cell

Reinforcement and Study Guide

Section 9.1 The Need for Energy

In your textbook, read about cell energy.

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

energy
ATP

phosphate
chemical bonds

adenine
work

charged
ribose

To do biological (1) work, cells require energy. A quick source of energy that cells use is the molecule (2) ATP. The (3) energy in this molecule is stored in its (4) chemical bonds. ATP is composed of a(n) (5) adenine molecule bonded to a(n) (6) ribose sugar. Three (7) charged molecules called (8) phosphate groups are attached to the sugar.

In your textbook, read about forming and breaking down ATP and the uses of cell energy.

Examine the diagram below. Then answer the questions.



9. How is energy stored and released by ATP?

Energy that is used to add a phosphate group to ADP becomes stored as a chemical bond in the resulting ATP molecule. The stored energy is released when ATP is broken down to ADP and a phosphate group.

10. How do cells use the energy released from ATP?

Cells use energy to make new molecules, maintain homeostasis, transmit nerve impulses, move, produce light, etc.

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Michael Brown

A red circular graphic with a gradient, appearing as a stylized arrow or a light effect, positioned to the right of the author's name.

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