

Chapter 9

Energy in a Cell

Reinforcement and Study Guide

Section 9.1 ATP in a Molecule

In your textbook, read about cell energy.

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

energy
ATP

phosphate
chemical bonds

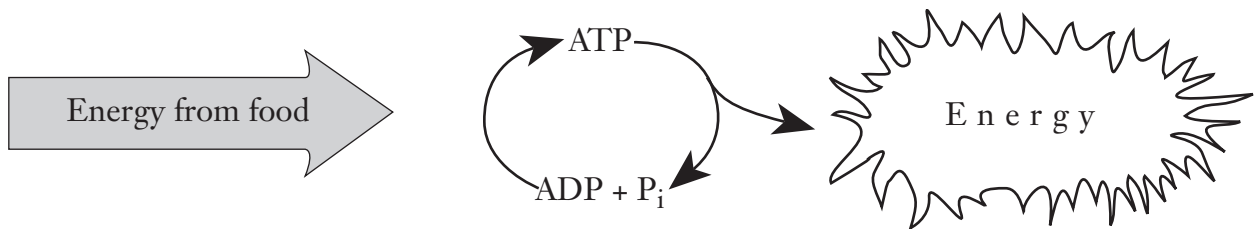
adenosine
work

charged
ribose

To do biological **(1)** _____, cells require energy. A quick source of energy that cells use is the molecule **(2)** _____. The **(3)** _____ in this molecule is stored in its **(4)** _____. ATP is composed of a(n) **(5)** _____ molecule bonded to a(n) **(6)** _____ sugar. Three **(7)** _____ molecules called **(8)** _____ 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?

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