

Section 1: Chemical Energy and ATP

Study Guide A

KEY CONCEPT

All cells need chemical energy.

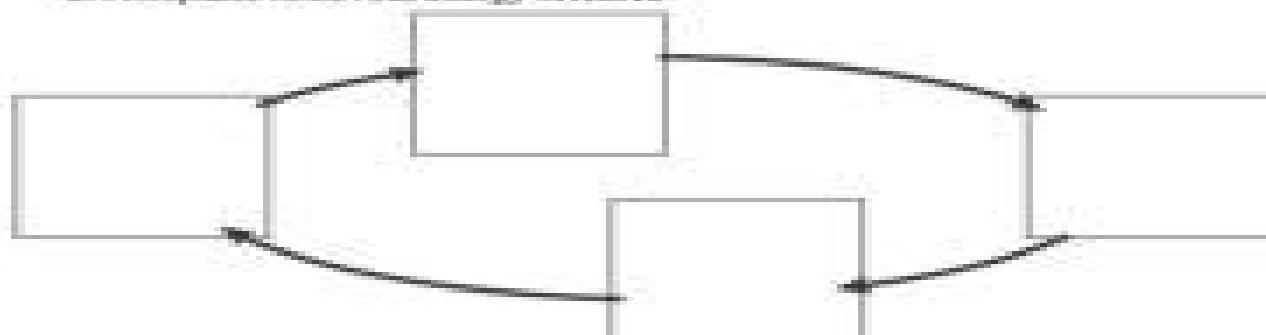
VOCABULARY

ATP	ADP	chemosynthesis
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MAIN IDEA: The chemical energy used for most cell processes is carried by ATP.

Circle the word or phrase that best completes the statement.

1. All cells use adenosine triphosphate (ATP) for energy. ATP is a molecule / organism that transfers energy from the breakdown of ADP / food molecules to cell processes.
2. ATP is a high-energy / low-energy molecule that is converted into higher-energy / lower-energy ADP when a phosphate group is removed and energy is released.
3. ADP is converted back into ATP by the addition of a phosphate group / food molecule.
4. Put the letter of the appropriate statement into each box of the cycle diagram below to show the relationship between ATP and ADP.
 - a. High-energy adenosine triphosphate (ATP)
 - b. Lower-energy adenosine diphosphate (ADP)
 - c. Energy added from breakdown of carbon-based molecules; phosphate added
 - d. Phosphate removed; energy released



Chemical Energy And Atp Study Guide

RM Cervero



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