

Study Guide 4.1: Chemical Energy and ATP

KEY CONCEPT:

All cells need chemical energy.

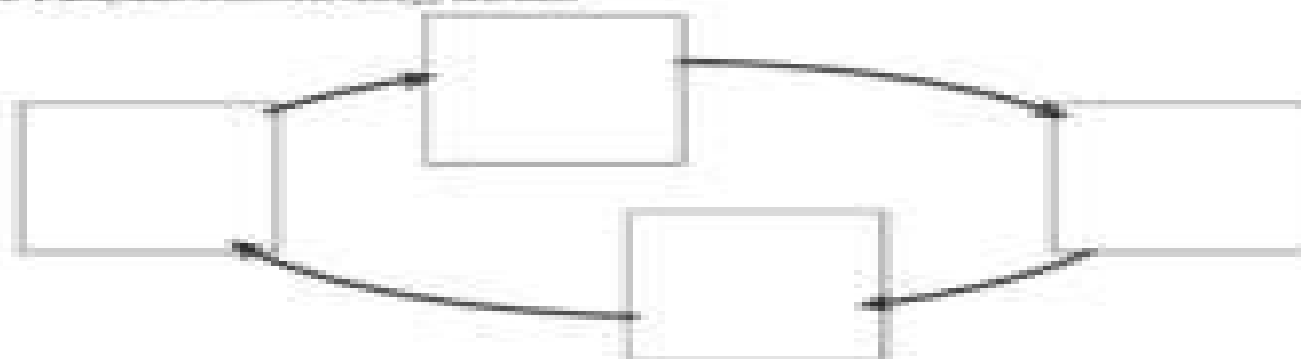
VOCABULARY

| | | |
|-----|-----|------------------------|
| ATP | ADP | Adenosine triphosphate |
|-----|-----|------------------------|

MAIN IDEA: The chemical energy used for most cell processes is provided 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 composed of three energy from the breakdown of ADP and molecules for cell processes.
2. ATP is a high-energy / low-energy molecule that is converted into high-energy / low-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 if food molecules.
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. Low-energy adenosine triphosphate (ADP)
 - c. Energy added from breakdown of carbon-based molecules, phosphate added
 - d. Phosphate removed, energy released



Chemistry Energy Study Guide

JA Banks



Chemistry Energy Study Guide:

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