

4.1 Chemical Energy and ATP

KEY CONCEPT All cells need chemical energy.

The chemical energy used by most cell processes is carried by ATP.

Chemical energy is used by all organisms and is needed for all life processes. The chemical energy that all cells use is in the form of ATP, which stands for **adenosine triphosphate**. **ATP** is a molecule that carries energy that cells can use. This energy comes from the breakdown of food molecules. The energy from the food is transferred by ATP. When ATP gets broken down, the energy is released.

ATP has three phosphate groups. The bond that holds the third phosphate molecule is easily broken. When the third phosphate is removed, energy is released. Then, the molecule becomes ADP, which stands for **adenosine diphosphate**. ADP does not carry energy that cells can use. The difference between ATP and ADP is

- ATP has three phosphate groups and is high energy
- ADP has two phosphate groups and is lower energy

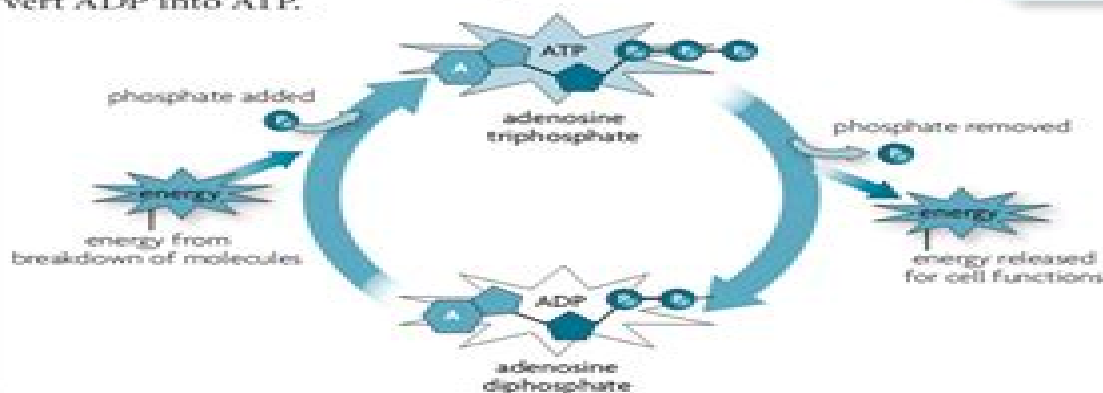
ADP is a lower-energy molecule. If another phosphate is added to ADP, it becomes ATP again, and is high energy. The energy that comes from breaking down food is used to convert ADP into ATP.

VISUAL VOCAB

ATP transfers energy to cell processes.



ADP is a lower-energy molecule that can be converted into ATP.



What is the role of ATP in living things?

Chemical Energy And Atp Study Guide Answer Key

Sharon Plowman, Denise Smith



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