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Chapter 8: Photosynthesis

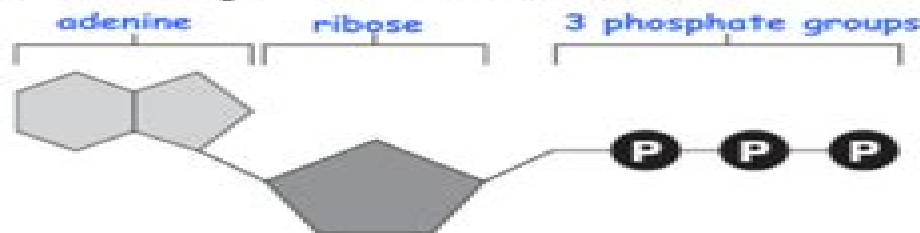
8.1 Energy and Life

Chemical Energy and ATP

For Questions 1-6, complete each statement by writing the correct word or words.

1. Energy is the ability to do work.
2. The main chemical compound cells use for energy is adenosine triphosphate (ATP).
3. Ribose is a 5-carbon sugar molecule that is part of an ATP molecule.
4. The phosphate groups of ATP are the key to its ability to store and supply energy.
5. ATP releases energy when it breaks bonds between its phosphate groups.
6. Most cells only store enough ATP for a few seconds of activity.

7. Label each part of the diagram of an ATP molecule below.



For Questions 8-10, refer to the Visual Analogy comparing ATP to a charged battery.

8. In the visual analogy, what chemical is represented by the low battery?
ADP represents a low battery, which has been discharged
9. What are two ways in which the diagram shows an increase in energy?
a brighter flashlight beam and a sunburst background
10. Describe the concepts shown in the diagram.
When a phosphate group breaks off an ATP molecule, the remaining ADP molecule stores very little energy, like a discharged battery. When a phosphate group is added to ADP, the resulting ATP molecule stores a great deal more energy, like a recharged battery.



Photosynthesis Study Guide Answers

Yijin Wang



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