

**Biology for the AP® Course: Active Reading Guide**  
**Unit 3 Cellular Energetics**  
**Module 19 Metabolism, the Environment, and Evolutionary Fitness**

**Introduction**

1. Identify the two forms of energy.
  - a. Potential
  - b. Kinetic
2. Identify four types of work cells use energy to perform.
  - a. Chemical
  - b. Transport
  - c. Mechanical
  - d. electrical
3. In addition to the four types of work identified in the previous question, cells use energy to stay organized and maintain homeostasis, which is critical for cell survival.
4. Identify the two sources of energy for all cells.
  - a. sunlight
  - b. chemical energy
5. Explain the statement, "Photosynthesis and cellular respiration are complementary metabolic processes."  
The process of photosynthesis is plants converting sunlight, water and CO<sub>2</sub> into glucose and oxygen. The stored chemical energy in glucose is then used by cells during cellular respiration to produce ATP aka adenosine triphosphate.
6. Describe the pathway of carbon through the energy reactions, starting with photosynthesis.

Photosynthesis is the process of plants using sunlight and then convert it into energy stored as glucose which then releases the carbon dioxide and the water. These products serve as reactions to each other, which creates an ongoing cycle.

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**United States. Veterans  
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