

## Cells and Energy

**Study Guide B****Answer Key****SECTION 1: CHEMICAL ENERGY AND ATP**

- ATP is adenosine triphosphate (ADP).
- A molecule that transfers energy down the potential energy hill from molecules to cells processes.
- ATP is a high-energy molecule that is converted into lower-energy ADP when a phosphate group is removed and energy is released. ADP is converted back into ATP by the addition of a phosphate group.
- ATP is high-energy adenosine triphosphate (ATP). Phosphate removed, energy released; lower-energy adenosine triphosphate (ADP); energy released down potential energy hill carbon-based molecules, phosphate added.
- One molecule of glucose (sugars) yields about 38 ATP. A molecule of fat (fats) yields about 4000 ATP.
- Some plants get the energy in a plant's body by photosynthesis; yields about 1000 ATP. 30 calories per mg (70 Calories per gram).
- Some plants get the energy in a plant's body by respiration; yields about 100 ATP. 30 calories per mg (70 Calories per gram).
- A process by which some organisms use chemical energy released by light energy to store energy in carbon-based molecules.
- ATP has three phosphate groups; ADP has two phosphate groups.
- Together, they mean "put together with chemical aid." In photosynthesis, chemical energy is used to produce carbon-based molecules that store energy.

**SECTION 2: OVERVIEW OF PHOTOSYNTHESIS**

- They produce the source of chemical energy for plants and for other organisms.
- It captures light energy to make sugar that stores chemical energy.

Plant photosynthesis, Energy Flow  
Plant Metabolic Ecology  
Study Guide B

- A molecule in chloroplasts that absorbs some of the energy in visible light.
- Important chemical reactions where photons of light are taken up by plants.
- carbs and gases.
- sun-shaped, membrane-bound compartments inside the green.
- $6\text{CO}_2 + 6\text{H}_2\text{O} \rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2$   
Carbon dioxide and water (the reactants) enter photosynthesis. Through many chemical reactions, with the help of many enzymes, a six-carbon sugar and oxygen (the products) are formed.
- The light-dependent reactions require light, and they store and transfer energy. The light-independent reactions do not directly need light, and they break sugars. **Light** for **Chloroplasts** (1) Energy from sunlight is absorbed and transferred along the light-based molecules. Water molecules are broken down and oxygen is released. (2) Energy stored along the light-based molecules is transferred to molecules that carry energy to the light-independent reactions. (3) Carbon dioxide is added to a cycle of chemical reactions, to break sugar molecules. (4) A six-carbon simple sugar (usually glucose;  $\text{C}_6\text{H}_{12}\text{O}_6$ ) is formed.
- Energy from light is used to put sugars together.
- CH<sub>2</sub>O energy is the light-absorbing molecule that makes leaves look green.
- The light-dependent reactions require sunlight, the light-independent reactions don't need sunlight.

**SECTION 3: PHOTOSYNTHESIS IN DETAIL**

- use light and transfer energy
- groups of molecules that capture and transfer energy

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**Charles Henderson, Mel Sabella, Leon  
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