

## 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 use the energy in a glucose molecule to produce yields about 1000 ATP. 30 calories per mg (70 Calories per gram).
- Some plants use the energy in a glucose molecule to produce yields about 100 ATP. 30 calories per mg (70 Calories per gram).
- Photosynthesis, 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 chlorophyll, 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 in chlorophyll, which stores energy.
- It requires carbon dioxide, water, and light energy.

Plant photosynthesis, Energy Flow  
Plant Metabolism Ecology  
Study Guide B

- A molecule in chlorophyll that absorbs some of the energy in visible light.
- Chlorophyll absorb wavelengths where photons enter leaves faster than in plants.
- Leaves and green.
- Leaf-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 chlorophyll. 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 build sugars. **Light** for **Chlorophyll** (Step 1) Energy from sunlight is absorbed and transferred along the chlorophyll molecules. Water molecules are broken down and oxygen is released. (2) Energy stored along the chlorophyll 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 build 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.
- Chlorophyll 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 store and transfer energy.

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