

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; others obtain the same amount of energy in a nonphotosynthetic; 40 calories per mg.
- 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 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 in light-susceptible chlorophyll.
- It captures light energy in light-susceptible chlorophyll.

1. Light energy; 2. Light-susceptible chlorophyll

- A molecule in chlorophyll that absorbs some of the energy in visible light.
- Light-susceptible chlorophyll, which photosynthesis is taken place in plants.
- Leaves and grass.
- 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 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-dependent Reactions** (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.
- CH₂O 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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Ying-Ying Zheng

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