

## Cells and Energy

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

1. adenosine triphosphate (ATP)
2. a molecule that transfers energy from the breakdown of food molecules to cell processes
3. 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.  
**Cycle Diagram:** High-energy adenosine triphosphate (ATP); phosphate removed, energy released; Lower-energy adenosine diphosphate (ADP); Energy added from breakdown of carbon-based molecules, phosphate added.
4. molecules most commonly broken down; glucose yields about 36 ATP; 4 calories per mg (4-Calories per gram)
5. same amount of energy in a person's body; triglyceride yields about 146 ATP; 9 calories per mg (9-Calories per gram)
6. least likely to be broken down; same about the same amount of energy as a fatty acid; 9 calories per mg (9-Calories per g)
7. a process by which some organisms use chemical energy instead of light energy to make energy-storing carbon-based molecules
8. ATP has three phosphate groups; ADP has two phosphate groups.
9. Together, they mean "to put together with chemical." In chemosynthesis, chemical energy is used to produce carbon-based molecules that store energy.

**SECTION 2. OVERVIEW OF PHOTOSYNTHESIS**

1. they produce the source of chemical energy for themselves and for other organisms
2. to capture light energy to make sugars that store chemical energy

3. a molecule in chloroplasts that absorbs some of the energy in visible light
4. membrane-bound organelles where photosynthesis takes place in plants
5. stroma and grana
6. coin-shaped, membrane-enclosed compartments inside the grana
7.  $6\text{CO}_2 + 6\text{H}_2\text{O} \rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2$   
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.
8. The light-dependent reactions require light, and they absorb and transfer energy. The light-independent reactions do not directly need light, and they build sugars.  
**Labels for Chloroplast Steps:** (1) Energy from sunlight is absorbed and transferred along the thylakoid membrane. Water molecules are broken down and oxygen is released. (2) Energy carried along the thylakoid membrane 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 larger molecules. (4) A six-carbon simple sugar (usually glucose)  $\text{C}_6\text{H}_{12}\text{O}_6$  is formed.
9. Energy from light is used to put sugars together.
10. Chlorophyll *a* is the light-absorbing molecule that makes leaves look green.
11. The light-dependent reactions require sunlight; the light-independent reactions can occur without sunlight.

**SECTION 3. PHOTOSYNTHESIS IN DETAIL**

1. to capture and transfer energy
2. groups of molecules that capture and transfer energy

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## **Table of Contents Modern Biology Study Guide Answer Key 6 1**

1. Understanding the eBook Modern Biology Study Guide Answer Key 6 1
  - The Rise of Digital Reading Modern Biology Study Guide Answer Key 6 1
  - Advantages of eBooks Over Traditional Books
2. Identifying Modern Biology Study Guide Answer Key 6 1
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in a Modern Biology Study Guide Answer Key 6 1
  - User-Friendly Interface
4. Exploring eBook Recommendations from Modern Biology Study Guide Answer Key 6 1
  - Personalized Recommendations
  - Modern Biology Study Guide Answer Key 6 1 User Reviews and Ratings
  - Modern Biology Study Guide Answer Key 6 1 and Bestseller Lists
5. Accessing Modern Biology Study Guide Answer Key 6 1 Free and Paid eBooks
  - Modern Biology Study Guide Answer Key 6 1 Public Domain eBooks
  - Modern Biology Study Guide Answer Key 6 1 eBook Subscription Services
  - Modern Biology Study Guide Answer Key 6 1 Budget-Friendly Options
6. Navigating Modern Biology Study Guide Answer Key 6 1 eBook Formats
  - ePub, PDF, MOBI, and More
  - Modern Biology Study Guide Answer Key 6 1 Compatibility with Devices
  - Modern Biology Study Guide Answer Key 6 1 Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Modern Biology Study Guide Answer Key 6 1
  - Highlighting and Note-Taking Modern Biology Study Guide Answer Key 6 1
  - Interactive Elements Modern Biology Study Guide Answer Key 6 1

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8. Staying Engaged with Modern Biology Study Guide Answer Key 6 1
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Modern Biology Study Guide Answer Key 6 1
  9. Balancing eBooks and Physical Books Modern Biology Study Guide Answer Key 6 1
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Modern Biology Study Guide Answer Key 6 1
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Modern Biology Study Guide Answer Key 6 1
    - Setting Reading Goals Modern Biology Study Guide Answer Key 6 1
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Modern Biology Study Guide Answer Key 6 1
    - Fact-Checking eBook Content of Modern Biology Study Guide Answer Key 6 1
    - Distinguishing Credible Sources
  13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development
    - Exploring Educational eBooks
  14. Embracing eBook Trends
    - Integration of Multimedia Elements
    - Interactive and Gamified eBooks

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