

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 yields about 38 ATP. 4 carbon atoms per mg C₆H₁₂O₆ (glucose) per gram.
- Some plants use the energy in a glucose molecule to produce yields about 1000 ATP. 30 carbon atoms per mg C₆H₁₂O₆ (glucose) per gram.
- Recall that in the human body, some stored chemical energy is used for energy in a glucose molecule; 4 carbon atoms per mg C₆H₁₂O₆ (glucose) 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 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 to make sugar that stores chemical energy.

Plant photosynthesis, Energy Flow
Plant Metabolic Ecology
Study Guide B

- A molecule in chlorophyll that absorbs some of the energy in visible light.
- importance: stored energy in the chlorophyll is used later in 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 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 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; C₆H₁₂O₆) 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 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 an 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
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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