

CHAPTER

5

DIRECTED READING

Photosynthesis and Cellular Respiration

► Section 5-1: Energy and Living Things

Energy Flows Between Organisms in Living Systems

In the space provided, write the letter of the description that best matches the term or phrase.

- | | |
|-------------------------------|--|
| _____ 1. photosynthesis | a. building molecules that can be used as an energy source, or breaking down molecules in which energy is stored |
| _____ 2. autotroph | b. the process by which light energy is converted to chemical energy |
| _____ 3. heterotroph | c. an organism that uses sunlight or inorganic substances to make organic compounds |
| _____ 4. cellular respiration | d. an organism that consumes food to get energy |
| _____ 5. metabolism | e. the process of getting energy from food |

Study the following steps in the flow of energy through living systems. Determine the order in which the steps take place. Write the number of each step in the space provided.

- _____ 6. Animals eat plants to get energy.
- _____ 7. Plants absorb sunlight.
- _____ 8. Plants use chemical energy to make organic compounds.
- _____ 9. Light from the sun reaches Earth.
- _____ 10. Plants convert sunlight to chemical energy.

Read each question, and write your answer in the space provided.

11. What is the difference between cellular respiration and getting energy from a log by burning it?

12. Why is ATP called an “energy currency”?

Holt Science And Technology Evolution Answer Key

Anthony S. Fauci



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1. Understanding the eBook Holt Science And Technology Evolution Answer Key
 - The Rise of Digital Reading Holt Science And Technology Evolution Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Holt Science And Technology Evolution Answer Key
 - 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 Holt Science And Technology Evolution Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Holt Science And Technology Evolution Answer Key
 - Personalized Recommendations
 - Holt Science And Technology Evolution Answer Key User Reviews and Ratings
 - Holt Science And Technology Evolution Answer Key and Bestseller Lists
5. Accessing Holt Science And Technology Evolution Answer Key Free and Paid eBooks
 - Holt Science And Technology Evolution Answer Key Public Domain eBooks
 - Holt Science And Technology Evolution Answer Key eBook Subscription Services
 - Holt Science And Technology Evolution Answer Key Budget-Friendly Options
6. Navigating Holt Science And Technology Evolution Answer Key eBook Formats

- ePub, PDF, MOBI, and More
 - Holt Science And Technology Evolution Answer Key Compatibility with Devices
 - Holt Science And Technology Evolution Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Holt Science And Technology Evolution Answer Key
 - Highlighting and Note-Taking Holt Science And Technology Evolution Answer Key
 - Interactive Elements Holt Science And Technology Evolution Answer Key
 8. Staying Engaged with Holt Science And Technology Evolution Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Holt Science And Technology Evolution Answer Key
 9. Balancing eBooks and Physical Books Holt Science And Technology Evolution Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Holt Science And Technology Evolution Answer Key
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Holt Science And Technology Evolution Answer Key
 - Setting Reading Goals Holt Science And Technology Evolution Answer Key
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Holt Science And Technology Evolution Answer Key
 - Fact-Checking eBook Content of Holt Science And Technology Evolution Answer Key
 - 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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