

**Biology for the AP® Course: Active Reading Guide**  
**Unit 3 Cellular Energetics**  
**Module 15 Photosynthesis I: Overview**

**15.1 Photosynthesis is the major entry point for energy into biological systems**

1. Describe the results of van Helmont's experiment.

Van Helmont found that the 200 pounds of dry soil into which he had planted a small willow tree decreased by only 2 ounces over a 5-year period and during this same period, the tree gained 164 pounds.

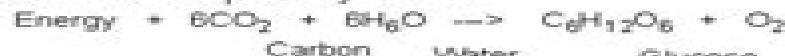
2. Describe van Helmont's incorrect assumption.

Van Helmont concluded that water must be responsible for the tree's growth but only half of the tree was liquid while the other half was made out of thin air.

3. Define photosynthesis.

Major entry point for energy into biological systems

4. Write the formula for photosynthesis.



5. Justify the statement, "Photosynthesis is the major entry point for energy into cells."

Photosynthesis plays an essential and major role for life on earth.

Photosynthesis is the source of all of the food we eat, the fuel we use for heating and transportation, and all oxygen that we breathe.

6. Identify the two important products of photosynthesis.

Glucose and Oxygen

# Active Guide Biology

**Rudi Appels, R. Morris, Bikram S. Gill, C.  
E. May**

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## **Table of Contents Active Guide Biology**

1. Understanding the eBook Active Guide Biology
  - The Rise of Digital Reading Active Guide Biology
  - Advantages of eBooks Over Traditional Books
2. Identifying Active Guide Biology
  - 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 Active Guide Biology
  - User-Friendly Interface
4. Exploring eBook Recommendations from Active Guide Biology
  - Personalized Recommendations

- Active Guide Biology User Reviews and Ratings
- Active Guide Biology and Bestseller Lists

5. Accessing Active Guide Biology Free and Paid eBooks

- Active Guide Biology Public Domain eBooks
- Active Guide Biology eBook Subscription Services
- Active Guide Biology Budget-Friendly Options

6. Navigating Active Guide Biology eBook Formats

- ePUB, PDF, MOBI, and More
- Active Guide Biology Compatibility with Devices
- Active Guide Biology Enhanced eBook Features

7. Enhancing Your Reading Experience

- Adjustable Fonts and Text Sizes of Active Guide Biology
- Highlighting and Note-Taking Active Guide Biology
- Interactive Elements Active Guide Biology

8. Staying Engaged with Active Guide Biology

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Active Guide Biology

9. Balancing eBooks and Physical Books Active Guide Biology

- Benefits of a Digital Library
- Creating a Diverse Reading Collection Active Guide Biology

10. Overcoming Reading Challenges

- Dealing with Digital Eye Strain
- Minimizing Distractions
- Managing Screen Time

11. Cultivating a Reading Routine Active Guide Biology

- Setting Reading Goals Active Guide Biology
- Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Active Guide Biology

- Fact-Checking eBook Content of Active Guide Biology

- 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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