

Name: _____

Photosynthesis Worksheet

Date: _____

1. What is the overall reaction for photosynthesis?



2. How does this compare to the overall reaction for cellular respiration?

It is the reverse of the overall reaction for cellular respiration.

3. Where does the energy for photosynthesis come from?

from sunlight

4. What plant pigments are involved in photosynthesis?

chlorophyll a, chlorophyll b, and carotenoids

5. Explain why chlorophyll appears green to us in terms of what happens to different wavelengths of light that strike a chlorophyll molecule.

We see light that bounces off of objects (reflected light). Chlorophyll is best at trapping and absorbing the red – orange wavelengths of light and the blue, indigo, and violet wavelengths of light. It is not good at absorbing the green wavelengths. The green light is reflected, so it is the part we see. Therefore, chlorophyll looks green to us.

6. How does the amount of energy in light change as the wavelength increases?

As wavelength increases, amount of energy decreases. Thus, violet light (which has a shorter wavelength) has more energy than red light (which has a longer wavelength).

7. Which colors of light are most effective for photosynthesis? Explain why.

Chlorophyll looks green to us because most of the green wavelengths are reflected rather than being absorbed. For this reason, green light is not an effective color of light to power photosynthesis. Chlorophyll a and b together absorb light most effectively in the blue to violet range and the orange to red range. Since violet wavelengths have the most energy in the visible light range (due to their shorter wavelengths) they can provide the maximum energy for photosynthesis.

8. In what organelle of a plant cell does photosynthesis take place?

in the chloroplasts

9. What are the two stages of photosynthesis?

light reactions and Calvin cycle

10. In which part of the chloroplast does each stage occur?

The light reactions take place in the thylakoids.

The Calvin cycle takes place in the stroma.

11. What happens to water molecules in the light reactions?

Water molecules (H_2O) are split to give electrons, H^+ ions, and oxygen gas (O_2).

12. What photosynthesis waste product is formed in the light reactions?

oxygen gas (O_2)

Photosynthesis Lab Student Exploration Answer Key

Michal Rosen-Zvi



Photosynthesis Lab Student Exploration Answer Key:

Unveiling the Magic of Words: A Review of "**Photosynthesis Lad Student Explortion Answer Key**"

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Table of Contents Photosynthesis Lad Student Explortion Answer Key

1. Understanding the eBook Photosynthesis Lad Student Explortion Answer Key
 - The Rise of Digital Reading Photosynthesis Lad Student Explortion Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Photosynthesis Lad Student Explortion 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 Photosynthesis Lad Student Explortion Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Photosynthesis Lad Student Explortion Answer Key
 - Personalized Recommendations
 - Photosynthesis Lad Student Explortion Answer Key User Reviews and Ratings
 - Photosynthesis Lad Student Explortion Answer Key and Bestseller Lists

5. Accessing Photosynthesis Lad Student Explortion Answer Key Free and Paid eBooks
 - Photosynthesis Lad Student Explortion Answer Key Public Domain eBooks
 - Photosynthesis Lad Student Explortion Answer Key eBook Subscription Services
 - Photosynthesis Lad Student Explortion Answer Key Budget-Friendly Options
6. Navigating Photosynthesis Lad Student Explortion Answer Key eBook Formats
 - ePub, PDF, MOBI, and More
 - Photosynthesis Lad Student Explortion Answer Key Compatibility with Devices
 - Photosynthesis Lad Student Explortion Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Photosynthesis Lad Student Explortion Answer Key
 - Highlighting and Note-Taking Photosynthesis Lad Student Explortion Answer Key
 - Interactive Elements Photosynthesis Lad Student Explortion Answer Key
8. Staying Engaged with Photosynthesis Lad Student Explortion Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Photosynthesis Lad Student Explortion Answer Key
9. Balancing eBooks and Physical Books Photosynthesis Lad Student Explortion Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Photosynthesis Lad Student Explortion Answer Key
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Photosynthesis Lad Student Explortion Answer Key
 - Setting Reading Goals Photosynthesis Lad Student Explortion Answer Key
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Photosynthesis Lad Student Explortion Answer Key
 - Fact-Checking eBook Content of Photosynthesis Lad Student Explortion 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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