



Activity A: Photosynthesis

Get the Gizmo ready:

- If necessary, click **Reset**.
- Check that the **PHOTOSYNTHESIS** tab is selected. Check that **Description** is turned on.



Introduction: Photosynthesis occurs in the **chloroplast**, an organelle found in plant and algae cells. Within the chloroplast, a green pigment called **chlorophyll** converts the **radiant energy** of sunlight into **chemical energy** that the plant can use.

Question: What are the inputs and outputs of photosynthesis?

1. **Predict:** Of the molecules shown on the **MOLECULES** pane, which do you think are inputs (ingredients) in photosynthesis? Which do you think are outputs?

Inputs:

Water and carbon dioxide

Outputs:

Glucose and oxygen

2. **Explore:** Drag each molecule from the **MOLECULES** pane to the chloroplast on the **PHOTOSYNTHESIS** pane. If a molecule is an input, it will stay in the chloroplast.

Which molecules are inputs in photosynthesis?

water and carbon dioxide

3. **Observe:** Click **Add Light** and look at the **Output**. What are the outputs of photosynthesis?

Glucose and oxygen

4. **Summarize:** Although photosynthesis is a complex process involving many reactions, it can be summarized by a simplified formula that shows inputs on the left and outputs on the right. Based on your observations, write a simplified formula for photosynthesis:

CO₂

+

H₂O

→

Glucose

+

O₂

Turn on **Show input/output formula** to check. Were you correct?

yes

5. **Challenge:** To balance the inputs and outputs of photosynthesis, there should be the same number of carbon, oxygen, and hydrogen atoms on each side of the arrow.

A. Is the formula balanced as written? Why or why not?

No because there is an unequal amount of H, C, and O atoms

B. Now balance the input/output formula by adding coefficients to each molecule. Write the balanced formula below, and then check your work by clicking **Balance**.

6

CO₂

+

6

H₂O

→

C₆H₁₂O₆

+

6

O₂

Biology Gizmo Photosynthesis Answers

Ying Liu

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Biology Gizmo Photosynthesis Answers:

New Scientist ,2008 *Photosynthesis* R.P. Gregory,1989-10-31 Photosynthesis the capture of light energy by living organisms is a simple enough concept but its investigation draws on the resources of disciplines from all fields of science The aim of this text is to provide a clear stimulating and essentially affordable coverage for undergraduate students of biology The activity of science is debate and practical experiment its product is a body of propositions which at any given time reflects the judgment and prejudices of those taking part The value of a proposition is related to the conceivable alternatives and writing it down without its context creates the false impression that science progresses by compilation of an increasing list of absolute truths It does not the facts and figures presented in the following pages have no intrinsic value unless they can be used by the reader to support an argument or point of view In short the reader is urged to respond So what to every item Secondly ideas like other foods should be date stamped science is inseparable from its history I have set out time charts to represent the evolution of our understanding in certain areas I have assumed that the reader is pursuing a course with a content of biochemistry microbiology and plant science or has access to basic texts I have assumed also that common methods such as spectrophotometry chromatography and electrophoresis as well as the techniques of molecular biology will be either part of the same course or in active use nearby

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Table of Contents Biology Gizmo Photosynthesis Answers

1. Understanding the eBook Biology Gizmo Photosynthesis Answers
 - The Rise of Digital Reading Biology Gizmo Photosynthesis Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Biology Gizmo Photosynthesis Answers
 - 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 Biology Gizmo Photosynthesis Answers
 - User-Friendly Interface

4. Exploring eBook Recommendations from Biology Gizmo Photosynthesis Answers
 - Personalized Recommendations
 - Biology Gizmo Photosynthesis Answers User Reviews and Ratings
 - Biology Gizmo Photosynthesis Answers and Bestseller Lists
5. Accessing Biology Gizmo Photosynthesis Answers Free and Paid eBooks
 - Biology Gizmo Photosynthesis Answers Public Domain eBooks
 - Biology Gizmo Photosynthesis Answers eBook Subscription Services
 - Biology Gizmo Photosynthesis Answers Budget-Friendly Options
6. Navigating Biology Gizmo Photosynthesis Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Biology Gizmo Photosynthesis Answers Compatibility with Devices
 - Biology Gizmo Photosynthesis Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Biology Gizmo Photosynthesis Answers
 - Highlighting and Note-Taking Biology Gizmo Photosynthesis Answers
 - Interactive Elements Biology Gizmo Photosynthesis Answers
8. Staying Engaged with Biology Gizmo Photosynthesis Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Biology Gizmo Photosynthesis Answers
9. Balancing eBooks and Physical Books Biology Gizmo Photosynthesis Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Biology Gizmo Photosynthesis Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Biology Gizmo Photosynthesis Answers
 - Setting Reading Goals Biology Gizmo Photosynthesis Answers
 - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Biology Gizmo Photosynthesis Answers
 - Fact-Checking eBook Content of Biology Gizmo Photosynthesis Answers
 - 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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