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Plants and Snails Gizmo

Overview

You will study the production and use of gases by plants and animals by measuring the oxygen (O_2) and carbon dioxide (CO_2) levels in a test tube containing snails and elodea (a type of plant) in both light and dark conditions.

Prior Knowledge Questions

Question/Prompt	Your Response
1. What important gas do we take in when we breathe?	Oxygen.
2. Why don't we run out of the important gases that we need to stay alive?	We breathe oxygen in and out of our bodies.

Directions

Part A: Introduction

1. Open a new tab or window. Go to the [Plants and Snails Gizmo](#).
2. In the Gizmo, each of the test tubes contains water and a small amount of **bromothymol blue (BTB)**. BTB is a chemical indicator. An indicator changes color when the chemicals in the water change.

Question/Prompt	Your Response
With the lights set to on, drag a snail into one test tube and a plant into another. Press Play (). 3. After 24 hours, what is the color of each tube?	The snail tube turned yellow and the plant tube turned blue.
Select Show O₂ and CO₂ values in the lower left hand corner of the screen. Place the O₂/CO₂ probe in the first tube then move it to the second tube. The probe shows the levels of two gases, O ₂ and CO ₂ , in the tubes. We call these amounts the <i>gas levels</i> .	
4. When the water turns blue, which gas is most common?	Oxygen
5. When the water turns yellow, which gas is most common?	Carbon Dioxide
6. What does it tell you when the water is green?	Both oxygen and carbon dioxide levels are even (5.0)
7. Describe the carbon dioxide-oxygen cycle by completing the sentences:	Animals breathe in [oxygen] and breathe out [carbon dioxide].

Plants And Snails Gizmo Answers

Christian Ernst Stahl

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.

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Table of Contents Plants And Snails Gizmo Answers

1. Understanding the eBook Plants And Snails Gizmo Answers
 - The Rise of Digital Reading Plants And Snails Gizmo Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Plants And Snails Gizmo 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 Plants And Snails Gizmo Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Plants And Snails Gizmo Answers
 - Personalized Recommendations
 - Plants And Snails Gizmo Answers User Reviews and Ratings
 - Plants And Snails Gizmo Answers and Bestseller Lists

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