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Student Exploration: pH Analysis: Quad Color Indicator

Vocabulary: acid, acidic, alkaline, base, indicator, neutral, pH

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

1. **Acids** are substances that produce hydrogen ions (H^+) when dissolved in water. Lemon juice is an example of an acid.

A. What does lemon juice taste like? sour

B. What does it feel like if lemon juice gets in your eye? burns

2. **Bases** are substances that produce hydroxide ions (OH^-) when dissolved in water. Hand soap is an example of a base.

A. What does soap feel like? slippery, smooth

B. What does soap taste like? sour, bad

C. What does it feel like if soap gets in your eye? burns

Gizmo Warm-up

The strength of an acid or base is measured on the **pH** scale. The term "pH" is short for "potential of hydrogen." It is a measure of how many excess H^+ ions there are in a solution. The pH scale runs from 0 to 14, with 0 representing the highest concentration of hydrogen ions. **Acidic** substances have a pH below 7, while **alkaline** substances (bases) have a pH above 7. Pure water has a pH of 7 and is considered **neutral**.

The *pH Analysis: Quad Color Indicator* Gizmo™ allows you to find the pH of a variety of liquids. In the Gizmo, check that the **Substance in the tube** is **Ammonia**, and click **Test**.



1. **Indicators** change color in acids or bases. What are the colors of the pH paper?

orange, coral pink, blue, yellow

2. Compare the paper to the **pH color chart**. What is the pH of ammonia? 11

Is ammonia acidic or alkaline? alkaline

Gizmo Student Exploration Ph Analysis Answers

M Woodhall



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Table of Contents Gizmo Student Exploration Ph Analysis Answers

1. Understanding the eBook Gizmo Student Exploration Ph Analysis Answers
 - The Rise of Digital Reading Gizmo Student Exploration Ph Analysis Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Gizmo Student Exploration Ph Analysis 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 Gizmo Student Exploration Ph Analysis Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Gizmo Student Exploration Ph Analysis Answers
 - Personalized Recommendations
 - Gizmo Student Exploration Ph Analysis Answers User Reviews and Ratings
 - Gizmo Student Exploration Ph Analysis Answers and Bestseller Lists
5. Accessing Gizmo Student Exploration Ph Analysis Answers Free and Paid eBooks
 - Gizmo Student Exploration Ph Analysis Answers Public Domain eBooks
 - Gizmo Student Exploration Ph Analysis Answers eBook Subscription Services
 - Gizmo Student Exploration Ph Analysis Answers Budget-Friendly Options

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