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Student Exploration: pH Analysis

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

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

- Acids** are substances that produce hydrogen ions (H^+) when dissolved in water. Lemon juice is an example of an acid.
 - What does lemon juice taste like? It tastes sharp and tangy.
 - What does it feel like if lemon juice gets in your eye? It would sting and burn your eyes.
- Bases** are substances that produce hydroxide ions (OH^-) when dissolved in water. Hand soap is an example of a base.
 - What does soap feel like? It is slippery and smooth.
 - What does soap taste like? It tastes bitter.
 - What does it feel like if soap gets in your eye? It stings and burns your eyes.

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* 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**. Wait until the animation is finished.



- Indicators** change color in acids or bases. What is the color of the pH paper? Dark Blue
- Compare the paper to the **pH color chart**. What is the pH of ammonia? 11
- Is ammonia acidic or alkaline? Alkaline

Student Exploration Ph Analysis Answers

David Baud



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Table of Contents Student Exploration Ph Analysis Answers

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

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 - Student Exploration Ph Analysis Answers Enhanced eBook Features
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 - Highlighting and Note-Taking Student Exploration Ph Analysis Answers
 - Interactive Elements Student Exploration Ph Analysis Answers
 8. Staying Engaged with Student Exploration Ph Analysis Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Student Exploration Ph Analysis Answers
 9. Balancing eBooks and Physical Books Student Exploration Ph Analysis Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Student Exploration Ph Analysis Answers
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Student Exploration Ph Analysis Answers
 - Setting Reading Goals Student Exploration Ph Analysis Answers
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Student Exploration Ph Analysis Answers
 - Fact-Checking eBook Content of 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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