

Name: _____

Date: _____

Student Exploration: pH Analysis

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, tangy taste
- B. What does it feel like if lemon juice gets in your eye? Sting and burn

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? Bitter
- 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* 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.



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

Answers For Ph Analysis Gizmo

M Lipman

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.

Answers For Ph Analysis Gizmo:

Editor & Publisher ,2003 **Teleconnect** ,1983 **Bulletin - U.S. Coast Guard Academy Alumni Association**
United States Coast Guard Academy. Alumni Association,1992 **InfoWorld** ,1985 3rd USA-Japan Computer
Conference Proceedings ,1978 **Determination of PH** Roger Gordon Bates,1964 In portraying the rise and fall in
eighteenth century Ireland and England of Barry Lyndon an adventurer gambler a cad and a romantic idealist Kubrick
departs from Thackeray s picaresque novel in scope and tone The first person narrator of the novel gives way in the film to
the third person who assumes a good deal of the storytelling function adding to the sense of detachment and abstraction
typical of Kubrick The way that this film polarised the critics suggests that it may hold a key to his oeuvre Enervating
pictorialism or a stately meditation upon the trappings of cultural ritual that we call civilisation The painterly tableaux
suggest the otherness of a past era a world as alien as that of 2001 in a way matched by few other period films **Ph**
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