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Date: 12/31/11

Student Exploration: pH Analysis: Quad Color Indicator

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

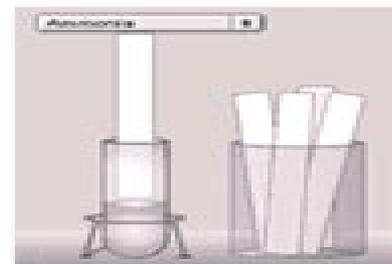
Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

- 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? sour
 - What does it feel like if lemon juice gets in your eye? burns
- 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? slippery, smooth
 - What does soap taste like? sour, bad
 - 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**.



- Indicators** change color in acids or bases. What are the colors of the pH paper?
orange, coral pink, blue, yellow
- Compare the paper to the **pH color chart**. What is the pH of ammonia? 11
Is ammonia acidic or alkaline? alkaline

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M Lipman



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