

Name: Mason Andy Date: 4/2/2024

## 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 Answer

**Pennsylvania State University**



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