

Name: \_\_\_\_\_ Period: \_\_\_\_\_ Date: \_\_\_\_\_

# pH Gizmo

## 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? \_\_\_\_\_
  - What does it feel like if lemon juice gets in your eye? \_\_\_\_\_
- 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? \_\_\_\_\_
  - What does soap taste like? \_\_\_\_\_
  - What does it feel like if soap gets in your eye? \_\_\_\_\_

## 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? \_\_\_\_\_
- Compare the paper to the **pH color chart**. What is the pH of ammonia? \_\_\_\_\_
- Is ammonia acidic or alkaline? \_\_\_\_\_
- Without checking, **make a prediction**: What is the pH of stomach acid? \_\_\_\_\_
- Ocean water generally has a pH of about 8. Is ocean water acidic or basic? \_\_\_\_\_
- Along with  $H_2O$  molecules and NaCl (salt), what other ions does ocean water have floating around in it?  $H^+$  or  $OH^-$ ?  
(HINT → Look back at the prior knowledge questions above.)  
(circle one)
- Rising global temperatures cause oceans to absorb more  $CO_2$  from the atmosphere, which lowers the pH of the ocean water. What effect do you think this might have on ocean life?

# Gizmo Ph Analysis Answers

**AN Whitehead**



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