

Name _____

The pH Scale: A Colorful Journey Through Acids and Bases

Multiple Choice Questions

1. What is the pH of pure water?
 - a) 0
 - b) 7
 - c) 14
 - d) 10

2. Which substances are considered strongly basic on the pH scale?
 - a) Substances with a pH of 5
 - b) Substances with a pH of 7
 - c) Substances with a pH of 10
 - d) Substances with a pH of 2

3. What is the role of litmus paper in measuring pH?
 - a) It turns red in the presence of an acid and blue in the presence of a base.
 - b) It measures the exact concentration of hydrogen ions in a solution.
 - c) It measures the temperature of a solution.
 - d) It helps balance the pH of pool water.

4. Why is understanding the pH scale important in agriculture?
 - a) To determine the color of fruits and vegetables
 - b) To adjust soil pH for better crop yields
 - c) To identify the acidity of milk
 - d) To calculate the pH of rainwater

5. What happens to the pH of rainwater when it becomes acidic due to air pollution?
 - a) It becomes neutral (pH 7).
 - b) It rises above pH 7.
 - c) It remains the same.
 - d) It falls below pH 5.6.

