

Name \_\_\_\_\_

## Exploring the Unique Differences Between Acids and Bases

### Short Answer Key

1. Neutralization is a chemical reaction between an acid and a base, resulting in the formation of water and salt. It is essential to neutralize harmful substances, prevent damage, and ensure safety.
2. Baking soda is a common base found in household cleaning products.
3. Maintaining the pH balance in swimming pools is crucial to ensure swimmers' safety and the longevity of pool equipment.
4. One characteristic that distinguishes acids from bases is the release of hydrogen ions ( $H^+$ ) by acids and hydroxide ions ( $OH^-$ ) by bases.
5. Acids contribute to the preservation of certain foods by adding tartness and inhibiting the growth of harmful microorganisms.

