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The Splashy Spectrum Worksheet

Discussion Questions

1. Describe what happened in this demonstration.

- 2. In this reaction, hydroxide ions replace chlorine ions in 2-chloro, 2-methylpropane (CH₃CClCH₃CH₃).
 - *a*. Write a chemical equation showing this replacement.
 - *b*. Does this reaction make the solution more acidic or more basic? Why?

c. Write a chemical equation in which hydroxide ions replace bromine ions in 2-bromo, 2-methylpropane (CH₃CBrCH₃CH₃).

3. In this demonstration, the solution experienced changes in pH. When it was acidic, the pH was approximately 3–4. When it was basic, the pH was approximately 11. What color is universal indicator solution at pH 3–4? What color is it at pH 11?

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