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The Yellow and Blue Switcheroo Demonstration Worksheet

Discussion Questions

1. Describe what happened in this demonstration.

2. This reaction can be divided into two component reactions. Write the equation for each reaction described below.

   a. Iodate ions reacting with hydrogen peroxide and hydrogen ions to form the intermediate molecule HOI.

   b. The reaction between HOI and malonic acid.

3. The color of the solution depends on the concentrations of iodine (I_2) and iodide ions (I^-). What color is the solution when:

   a, I_2 is high, I^- is high

   b, I_2 is high, I^- is low

   c. I_2 is low, I- is high

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