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## The Hydrogen Peroxide Rainbow Demonstration Worksheet

## **Discussion Questions**

1. Describe what happened in this demonstration.

- 2. Write a balanced chemical equation for each of the following reactions.
  - a. Hydrogen peroxide reacting with iodide ion in the presence of hydrogen ion in Part A
  - b. Iodine combining with Iodide ions in Part A
  - c.Hydrogen peroxide reacting with permanganate in the presence of hydrogen ion in Part B
- 3. What substance is responsible for the intermediate yellow color of the solution in Part A?
- 4. Was hydrogen peroxide an oxidizing agent or a reducing agent in Part A? What about Part B? Explain.

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