

# Iodine Clock Reaction

## Research question

How does the concentration of sodium bisulfite affect the rate of reaction between acidified potassium iodate solution and sodium bisulfite solution?

## Objective

To investigate the effect of the concentration of sodium bisulfite on its rate of reaction with acidified potassium iodate solution, measured by the time it takes for the appearance of blue-black colour in the reaction mixture.

## Balanced chemical equation with state symbols



## Materials (with uncertainty)

1. Potassium iodate solution (solution A)
2. Sodium bisulfite solution (solution B)
3. Starch solution (solution C)
4. Distilled water
5. 3ml Plastic graduated pipette ( $\pm 0.25$  ml)
6. Stopwatch ( $\pm 0.01$  s)
7. Reaction beaker
8. White paper

## Volumes of solutions used in the experiment

Experiment	Distilled water ( $\pm 0.25$ ml)	Solution A/ Potassium iodate solution ( $\pm 0.25$ ml)	Solution C/ Starch solution ( $\pm 0.25$ ml)	Solution B/Sodium bisulfite solution ( $\pm 0.25$ ml)
1	3	1.0	0.5	0.5
2	2.5	1.0	0.5	1
3	2	1.0	0.5	1.5
4	1.5	1.0	0.5	2

# Iodine Clock Experiment Lab Report

**H Kauffman**



## **Iodine Clock Experiment Lab Report:**

## **Iodine Clock Experiment Lab Report** Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the power of words has become more evident than ever. They have the ability to inspire, provoke, and ignite change. Such could be the essence of the book **Iodine Clock Experiment Lab Report**, a literary masterpiece that delves deep to the significance of words and their impact on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book's key themes, examine its writing style, and analyze its overall effect on readers.

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