

## Experiment 1: The Effect of Temperature on the Rate of Reaction

Name: \_\_\_\_\_

### Background Information

Every science experiment is designed to test a hypothesis. In this experiment, the hypothesis is that the rate of reaction will increase as the temperature increases. The rate of reaction is the speed at which the reactants are converted into products. The rate of reaction can be measured by the change in concentration of the reactants or products over time. In this experiment, the rate of reaction will be measured by the change in the volume of gas produced over time. The rate of reaction will be measured at three different temperatures: 20°C, 30°C, and 40°C. The rate of reaction will be measured by the change in the volume of gas produced over time. The rate of reaction will be measured at three different temperatures: 20°C, 30°C, and 40°C. The rate of reaction will be measured by the change in the volume of gas produced over time.

**Apparatus and Materials**



Diagram of the experimental setup.

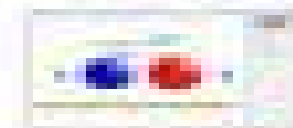


Diagram of the experimental setup.

### Procedure

1. Prepare a solution of 0.1 M sodium thiosulfate in 100 mL of water.

2. Prepare a solution of 0.1 M hydrochloric acid in 100 mL of water.



### Results and Discussion

Table 1.1

1. The rate of reaction increases as the temperature increases. This is because the molecules have more energy and move faster, leading to more frequent collisions.
2. The rate of reaction increases as the concentration of the reactants increases. This is because there are more molecules available to react.
3. The rate of reaction increases as the surface area of the reactants increases. This is because there is more surface area available for the reaction to occur.

Time taken for reaction to complete (s)	Volume of gas produced (cm <sup>3</sup> )	Rate of reaction (cm <sup>3</sup> /s)	Temperature (°C)	Concentration of reactants (M)
100	10	0.1	20	0.1
80	12	0.15	30	0.1
60	15	0.25	40	0.1
40	20	0.5	20	0.2
30	25	0.83	30	0.2
20	30	1.5	40	0.2
15	35	2.33	20	0.3
10	40	4.0	30	0.3
8	45	5.62	40	0.3
6	50	8.33	20	0.4
4	55	13.75	30	0.4
3	60	20.0	40	0.4

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