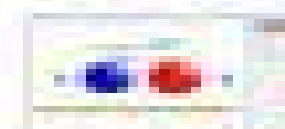
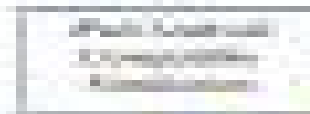


Experiment 1: The Effect of Temperature on the Rate of Reaction

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 of the reactants increases. The rate of reaction is the change in concentration of a reactant or product per unit time. The rate of reaction can be measured by the change in concentration of a reactant or product over a given time interval. The rate of reaction can also be measured by the change in volume of a gas produced over a given time interval. The rate of reaction can also be measured by the change in mass of a solid product over a given time interval.



Procedure

1. Weigh out 1.0 g of sodium carbonate.
2. Add it to 100 mL of water in a beaker.

3. Weigh out 1.0 g of sodium carbonate.

4. Add it to 100 mL of water in a beaker.

Results

Table 1.1

1. The rate of reaction was measured by the volume of gas produced. The rate of reaction was found to be 1.0 mL/min.
2. The rate of reaction was found to be 1.0 mL/min.
3. The rate of reaction was found to be 1.0 mL/min.

Time (s)	Volume of gas (mL)	Rate of reaction (mL/min)	Temperature (°C)	Concentration of reactants (M)
0	0	0	20	0.1
10	1.0	1.0	20	0.1
20	2.0	2.0	20	0.1
30	3.0	3.0	20	0.1
40	4.0	4.0	20	0.1
50	5.0	5.0	20	0.1
60	6.0	6.0	20	0.1
70	7.0	7.0	20	0.1
80	8.0	8.0	20	0.1
90	9.0	9.0	20	0.1
100	10.0	10.0	20	0.1

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web 3 design of structures components ap1000 european equipment and systems design control document eps gw gl 700 3 11 2 revision 1 and maintenance schedules for that equipment the maximum and minimum conditions identified as the abnormal condition are based on the design limits for the affected areas

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web equipment and systems ap1000 design control document nrc staff approval is required prior to implementing a change in this information see dcd introduction section 3 5 tier 2 material 3 8 1 revision 16 3 8 design of category i structures 3 8 1 concrete containment this subsection is not applicable to the ap1000 3 8 2 steel containment

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tier 1 information intro 1