

### D. Presence of a Catalyst

- What effect does the  $\text{MnO}_2$  catalyst have on the rate of evolution of  $\text{O}_2$  gas?
- Write a balanced equation for the decomposition of  $\text{H}_2\text{O}_2$ .

### E. Concentration of Reactants: Magnesium-Hydrochloric Acid System

Concentration of HCl	Volume of HCl	mol HCl	mass of Mg	mol Mg	mol HCl / mol Mg	Time (sec)
6 M	5 mL		0.0301			
4 M	5 mL		0.0188			
3 M	5 mL		0.0161			
1 M	5 mL		0.0124			

- Plot  $\frac{\text{mol HCl}}{\text{mol Mg}}$  (y-axis) versus time (x-axis). Instructor's approval of graph: \_\_\_\_\_
- From your graph, predict the time, in seconds, for 5 mg of Mg to react in 5 mL of 2.0 M HCl.

### F. Concentration of Reactants: Iodic Acid-Sulfurous Acid System

Molar concentration of  $\text{HIO}_3$  \_\_\_\_\_ Molar concentration of  $\text{H}_2\text{SO}_3$  \_\_\_\_\_

- What is the volume (mL) per drop of the  $\text{HIO}_3$  solution? \_\_\_\_\_
- What is the volume (mL) per drop of the water? \_\_\_\_\_

Test Tube	Drops of $\text{HIO}_3$	mL $\text{HIO}_3$	Drops of $\text{H}_2\text{O}$	mL $\text{H}_2\text{O}$	mL $\text{H}_2\text{SO}_3$	$[\text{HIO}_3]_0$ (diluted)	Time (sec)
1					1.0		
2					1.0		
3					1.0		
4					1.0		
5					1.0		

- Plot  $[\text{HIO}_3]_0$  (y-axis) versus time (x-axis). Instructor's approval of graph: \_\_\_\_\_
- How does a change in the molar concentration of  $\text{HIO}_3$  affect the time required for the appearance of the deep-blue  $\text{I}_2$ -starch complex?
- Estimate the time, in seconds, for the deep-blue  $\text{I}_2$ -starch complex to form when 10 drops of 0.01 M  $\text{HIO}_3$  are used for the reaction. Assume all other conditions remain constant.

<sup>a</sup>See footnote 5.

# Factors Affecting Reaction Rate Lab Answers

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