Name: …………………… ( )

Class: ………………

Date: …… / …… / ……

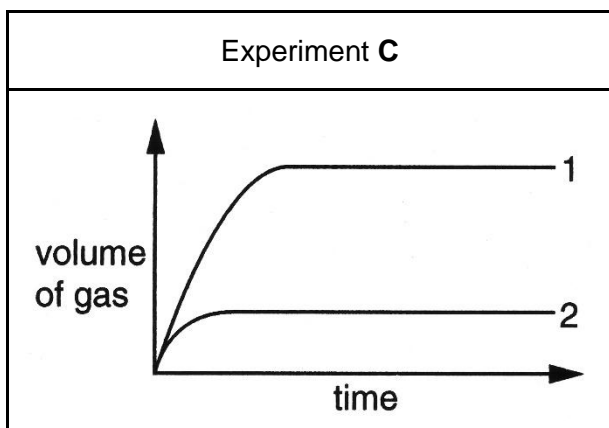*Chem!stry*

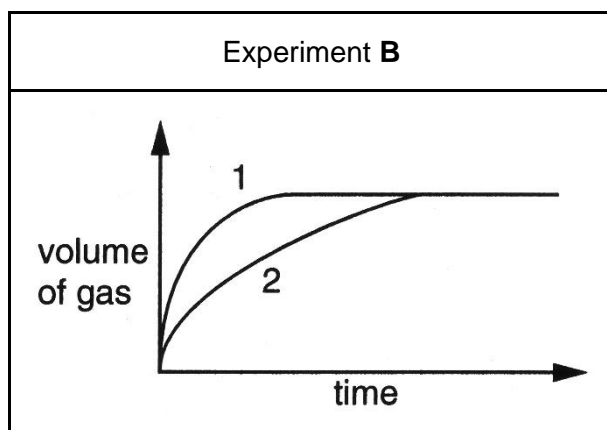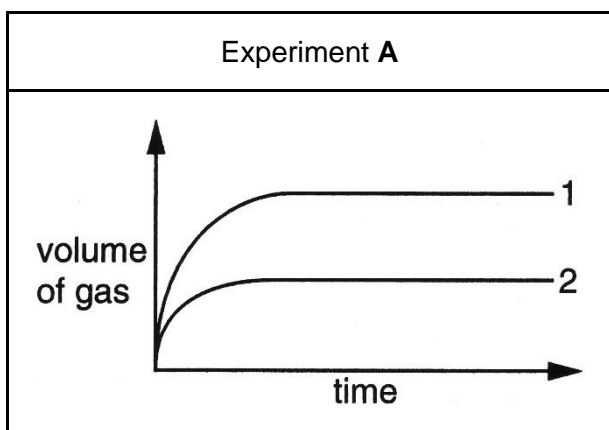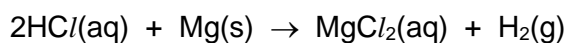## Rate of Reaction Graphs – One

- All of the graphs below show data collected for the reaction between hydrochloric acid and magnesium:

$$2HCl(aq) + Mg(s) \rightarrow MgCl_2(aq) + H_2(g)$$

Experiment **A**	Experiment **B**

Experiment **C**	Experiment **D**
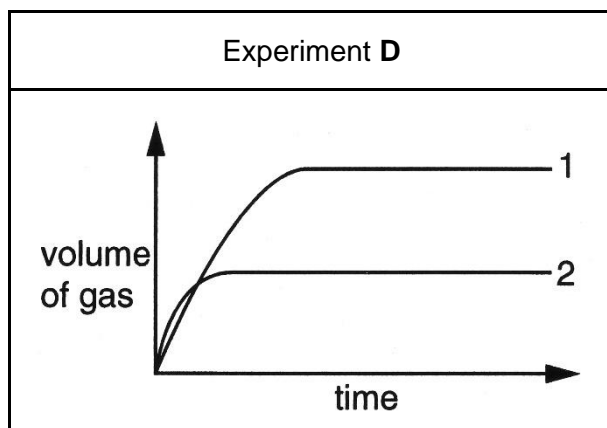
1. Study the graph for experiment **A**. In reaction **1**, 20.0 cm³ of 1.0 mol/dm³ hydrochloric acid was reacted with an excess of magnesium ribbon. What change(s) to this experiment would give the results observed in reaction **2**?

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2. Study the graph for experiment **B**. In reaction **1**, 40.0 cm^3 of 2.0 mol/dm^3 hydrochloric acid was reacted with an excess of magnesium powder. What change(s) to this experiment would give the results observed in reaction **2**?

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3. Study the graph for experiment **C**. In reaction **2**, 20.0 cm^3 of 0.50 mol/dm^3 hydrochloric acid was reacted with an excess of magnesium ribbon. What change(s) to this experiment would give the results observed in experiment **1**?

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4. Study the graph for experiment **D**. In reaction **1**, 20.0 cm^3 of 2.0 mol/dm^3 hydrochloric acid was reacted with an excess of magnesium ribbon. What change(s) to this experiment would give the results observed in experiment **2**?

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• Scan the QR code below for the answers to this assignment.

http://www.chemist.sg/rate_of_reaction/rate_graphs_one_ans.pdf