

Name \_\_\_\_\_ Date \_\_\_\_\_

# Worksheet 17.1: Sodium thiosulfate and hydrochloric acid changing temperature practical

## Analysis of results

- 1 Record your observations from the experiment, including those which could be evaluated as sources of errors.

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- 2 Record raw quantitative data in a table. You need to include units and absolute uncertainties where appropriate.

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- 3 Calculate the rate of reaction for each temperature.

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- 4 Draw a graph for rate against temperature.

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- 5 Work out the percentage uncertainties for all measurements.

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- 6 Explain your data using collision theory.

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## Evaluation of experiment

- 7 How would heat loss to the surroundings affect the rate of reaction?

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- 8 What are the other systematic errors for this experiment?

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- 9 In your experiment you are timing how long it takes for the cross to disappear. As this is done by human eye it could be a source of error, how could this be improved?

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