

Required Practical: Measuring Rates

1. Plot a graph with:

- 'Volume of gas produced in cm³ (for 0.5 M hydrochloric acid)' on the y-axis
- 'Time in seconds' on the x-axis

Draw a smooth curved line of best fit.

2. Plot a curve for 1.0 M hydrochloric acid on the same graph.

3. Use this graph to compare the rates of reaction of 0.5 M and 1.0 M hydrochloric acid with marble chips

4. Use the idea of particles (collision theory) to explain your findings.

5. Identify the following variables:

a. Independent Variable

b. Dependent Variable

c. Control Variable
