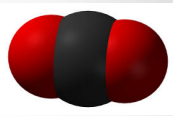
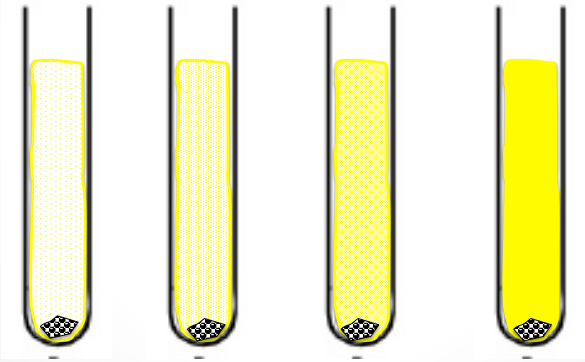
# Investigation
# Reaction Rates of Carbon Dioxide Production

Year 8 Chemical Sciences

# Method





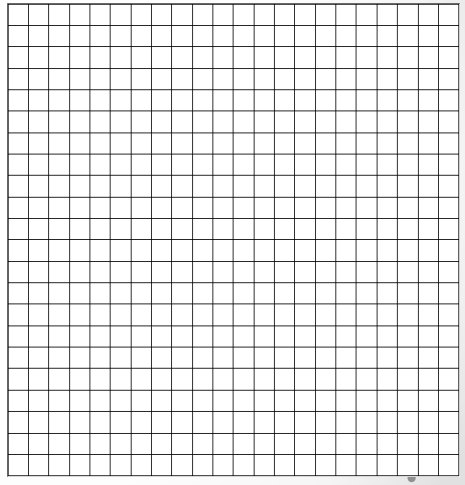
1 2 3 4

# Results Table

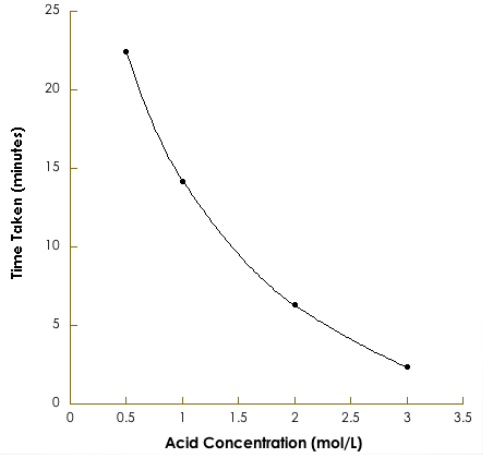
| Test tube | Concentration of acid (mol/L) | Time taken to dissolve (minutes) |
|---|---|---|
| 1 | 0.5 | 22.43 |
| 2 | 1.0 | 14.19 |
| 3 | 2.0 | 6.30 |
| 4 | 3.0 | 2.34 |

# Graph Results

- Label axes
  - IV
    - Horizontal
  - DV
    - Vertical
- Title
- Scales
  - Use most of the space for your graph
- Plot points
- Line of best fit
- What is the trend?



# Graph of dissolving time vs. acid concentration




# Discussion

- Restate your hypothesis
- From the graph identify and analyse the trend
  - What is the relationship between the independent and dependent variable?
- State if this supports or refutes your hypothesis, and provide evidence from your graph to justify your claim
  - Use to justify conclusion as well
- Propose explanations for your results drawing on evidence to support your views
  - Consider alternative explanations
- Explain how, and what, you would change to improve data quality i.e. reliability of results
- Think about a FAIR TEST. Were there any aspects of this investigation that may impact on it being a fair test?