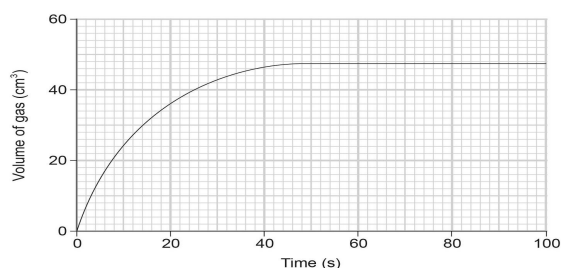


Measuring rates

Collecting hydrogen

Acids release hydrogen when they react with magnesium. The graph shows the volume of hydrogen collected at different times after the start of a reaction between magnesium ribbon and hydrochloric acid.



1. Read from the graph the total volume of hydrogen collected. _____
2. How long did the reaction take to finish? _____
3. Another reaction took 20 seconds to finish. Was it faster or slower? _____
4. At the start, the graph is a curve. Explain what this tells you about the reaction.
5. Explain why the graph stays flat after the first 45 seconds.
6. Reactions like this can be compared by measuring how much gas is made in a certain amount of time. Use the graph to find the volumes of hydrogen given off (a) between 0 and 10 seconds; (b) between 20 and 30 seconds.
 - a) _____
 - b) _____

