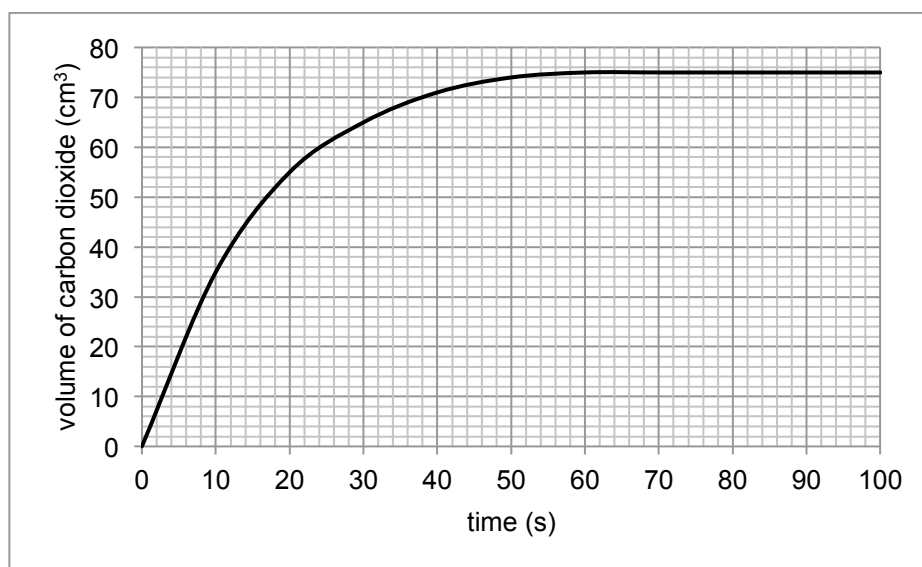




A student carried out an experiment where she recorded the volume of carbon dioxide gas formed as calcium carbonate reacts with hydrochloric acid.



The graph shows how the volume of carbon dioxide varied with time.



- 1 Calculate the mean rate of reaction in the first 20 seconds in cm^3/s

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- 2 Draw a tangent to the graph to find the rate at 0 seconds in cm^3/s

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- 3 Draw a tangent to the graph to find the rate at 20 seconds in cm^3/s

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- 4 Explain why the rate is fastest at the beginning and then slows down and stops.

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