

Kinetics Investigation Effect of Using a Catalyst

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Block # 2

The rate of a reaction is determined by several factors that you will investigate in this part of the learning experience.

Part 1: View the Flinn At Home Lab on Catalysts

<https://drive.google.com/file/d/1Ta77TakloTcR9XFYv7nl5LylwaLKxe8H/view>

Part 2: Complete the simulation

1. Go to <https://www.edumedia-sciences.com/en/media/564-rate-of-reaction>
2. Log in using these credentials: **Username: covid19 Password: edumedia**
3. Make sure "Temperature" and "Bar Chart" are selected on the left hand side of the screen.
4. Note the temperature differences in the two reaction columns.
5. Click the 'play' button at the bottom of the simulation screen to run the reaction.
6. Note that the green (A) and blue (B) spheres are reacting to make a red oval (C).
7. Fill in the data table below with your observations.
8. Change the selections on the left to "Concentration". Click the play button again and watch the reactions progress. Fill in the data table with your observations.

eduMedia Rate of Reaction Simulation

Temperature	Concentration	Time it takes for Reaction to be Complete
20 C	A = B	17 seconds
80 C	A = B	1 minute 35 seconds
20 C	A = B	1 minute
20 C	A = 2B	16 seconds