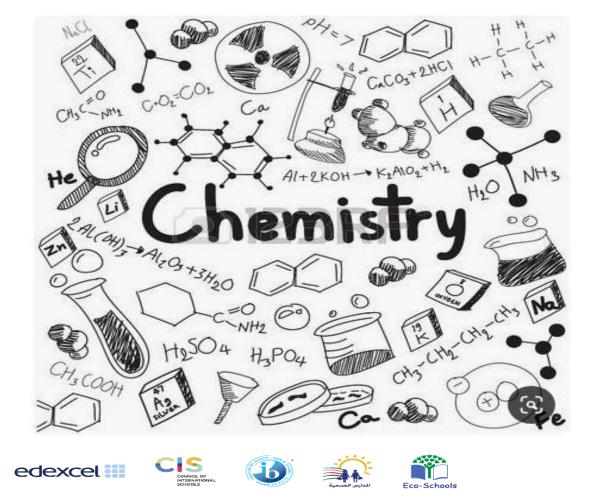


- Chapter 12
- Lesson: (Concentration and rate of reaction)
- Scholastic Year: 2022-2023
- Grade: 8CS



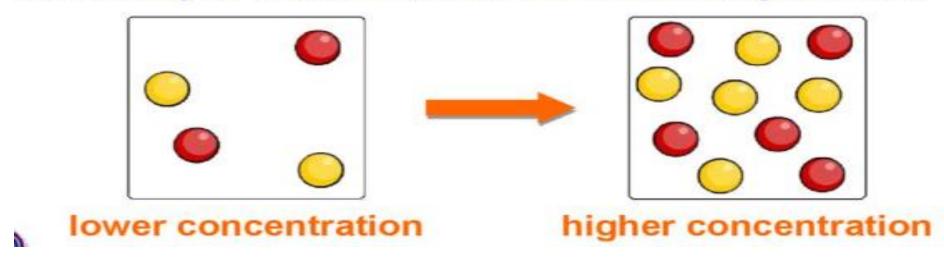


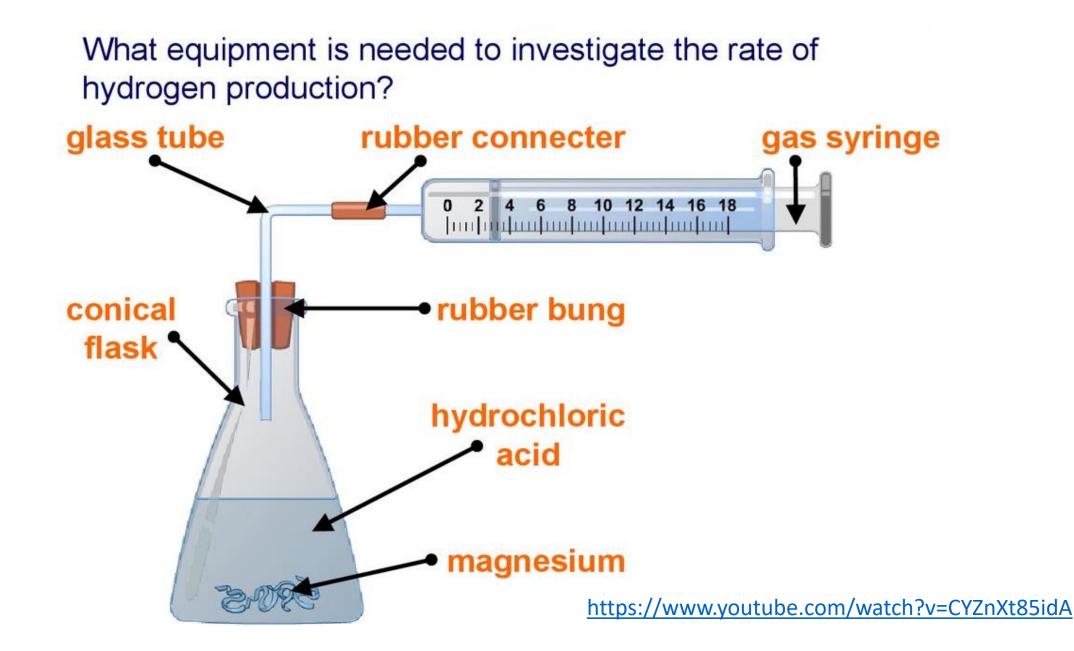
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The higher the concentration of a dissolved reactant, the faster the rate of a reaction.

Why does increased concentration increase the rate of reaction?

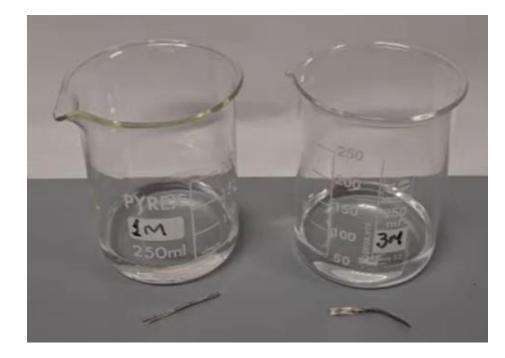
At a higher concentration, there are more particles in the same amount of space. This means that the particles are more likely to collide and therefore more likely to react.







https://youtu.be/ek8h0XXW_vE



- The graph shows the volume of gas produced over time in the reaction between HCl and magnesium.
- The graph shows that a greater volume of hydrogen gas is produced over a short period of time when concentrated hydrochloric acid is used.
- As the concentration of hydrochloric acid increases, the number of acid particles involved in the reaction increases. As a result, there is a greater number of collisions between the acid and the magnesium particles, and so, there is an increase in the rate of reaction.

