

## Unit 6 - Chemical Kinetics

**Rate of reaction:** the change in concentration of reactants or products per unit time.

Unit: mol dm<sup>-3</sup> s<sup>-1</sup>

| Methods for measuring rate of reaction   |  |
|--|--|
| Change in volume method  | Change in mass method  |
| If <u>one of the products is a gas</u> , a gas syringe can be connected to measure the increase in volume of gas per unit time. This can be achieved by measuring the volume every 30 seconds and plotting a graph of volume against time. | If there is a <u>change in mass of the reactants</u> , such as when a gas is evolved, the decrease in mass can be measured. This can be achieved by placing the reaction on a scale and weighing it per unit time.   |
| Change in transmission of light method   | Change in concentration method   |
| If <u>one of the reactants or products is colored</u> , or an indicator is added to the reaction, a colorimeter or photo spectrophotometer can measure the change in intensity of light.   | <u>Titration</u> can be used to measure the concentration of reactants or products per unit time, by titrating a known volume and concentration of a substance against the product or reactant. However, titration takes time, so a process known as <u>quenching</u> is used to stop the reaction and one can then measure the concentration of the products/reactants. |
| Change in conductivity method  | Non-continuous methods   |
| Using <u>electrolysis</u> , we measure the total electrical conductivity of a solution. As reactant ions are converted into product compounds, the decrease in total electrical conductivity will tell us the change in the concentration  | By measuring the <u>time a reaction takes to reach a certain end point</u> under different reaction conditions, we are able to determine the rate of the reaction. However, this rate of reaction is only an average rate and not a continuous rate  |

# Ib Chemistry Kinetics Study Guide

**RD Boyd**



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