

## Unit 6 - Chemical Kinetics

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

Unit:  $\text{mol dm}^{-3} \text{s}^{-1}$

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

**Minjie Lin**



## **Ib Chemistry Kinetics Study Guide:**

## Unveiling the Energy of Verbal Artistry: An Emotional Sojourn through **Ib Chemistry Kinetics Study Guide**

In a world inundated with monitors and the cacophony of immediate conversation, the profound energy and emotional resonance of verbal art often disappear into obscurity, eclipsed by the continuous onslaught of noise and distractions. Yet, located within the lyrical pages of **Ib Chemistry Kinetics Study Guide**, a captivating perform of literary elegance that pulses with raw feelings, lies an unforgettable trip waiting to be embarked upon. Published with a virtuoso wordsmith, this mesmerizing opus manuals viewers on a mental odyssey, softly revealing the latent possible and profound impact embedded within the complicated web of language. Within the heart-wrenching expanse of this evocative evaluation, we can embark upon an introspective exploration of the book is key styles, dissect its fascinating publishing design, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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