

# 10. Factors Affecting the Rate of a Chemical Reaction

## What you will accomplish in this experiment

You'll investigate *two* of the *four* factors that affect the rate of a chemical reaction.

Specifically, you'll study the impact of:

- Increasing the *concentration* of each reactant (increasing the number of *moles of reactant per liter of solution*).
- Increasing the *temperature* of the reaction by heating.

You'll determine the rate of a reaction by measuring the decrease in reactant concentration over a period of time (as it is being converted into product). You'll then need to make a conclusion as to whether reaction rate *increases* or *decreases* when the *concentration* of each reactant is increased, and when the overall temperature of the reaction is increased.

## Concepts you need to know to be prepared

The study of the *rate* of a chemical reaction is called *chemical kinetics*.

The rate of a chemical reaction can be studied by measuring either:

- How quickly a *reactant* is used up, or
- How quickly a *product* is formed.

More specifically, the *change in concentration* of a reactant (or of a product) is measured *over a certain period of time* as the reaction is occurring.

For example, the figure to the left below illustrates how one might measure the rate of decomposition of hydrogen peroxide,  $\text{H}_2\text{O}_2$ . The hydrogen peroxide molecules decompose to produce water and oxygen gas.



The change in mass as the bubbles of oxygen gas diffuse out of the reaction flask provides a way to measure how quickly the product is being formed. The graph to the right shows the increase in oxygen concentration (as well as the decrease in hydroxide peroxide concentration) over a period of time.



# Experiment 10 Factors Affecting Rate Of Reaction

**Anthony S. Fauci**



## **Experiment 10 Factors Affecting Rate Of Reaction:**

**Laboratory Manual for Principles of General Chemistry** Jo Allan Beran, 2010-11-01 This new edition of the Beran lab manual emphasizes chemical principles as well as techniques The manual helps students understand the timing and situations for the various techniques The Beran lab manual has long been a market leading lab manual for general chemistry Each experiment is presented with concise objectives a comprehensive list of techniques and detailed lab intros and step by step procedures *Karnataka PUE, Chapterwise & Topicwise, Solved Papers (2017-2023), II PUC Class 12, Chemistry* Oswaal Editorial Board, 2023-09-25 Description of the product 100 % Updated for 2023 24 with Latest Reduced Karnataka PUE Syllabus Concept Clarity with Concept wise Revision Notes Mind Maps Mnemonics 100% Exam Readiness with Previous Year s Questions Board Scheme of Valuation Answers Valuable Exam Insights with 2000 NCERT Exemplar Questions Extensive Practice 2 Model Papers 3 Online Model Papers **Oswaal Karnataka 2nd PUC Question Bank Class 12 Chemistry | Chapterwise & Topicwise Previous Solved Papers (2017-2024) | For Board Exams 2025** Oswaal Editorial Board, 2024-05-29 Description of the Product 100 % Updated for 2024 25 with Latest Reduced Karnataka PUE Syllabus Concept Clarity with Concept wise Revision Notes Mind Maps Mnemonics 100% Exam Readiness with Previous Year s Questions Board Scheme of Valuation Answers Valuable Exam Insights with 2000 NCERT Exemplar Questions Extensive Practice 2 Model Papers 3 Online Model Papers *Jacaranda Nature of Biology 2 VCE Units 3 and 4, LearnON and Print* Judith Kinnear, Marjory Martin, Lucy Cassar, Elise Meehan, Ritu Tyagi, 2021-10-29 Jacaranda Nature of Biology Victoria s most trusted VCE Biology online and print resource The Jacaranda Nature of Biology series has been rewritten for the VCE Biology Study Design 2022 2026 and offers a complete and balanced learning experience that prepares students for success in their assessments by building deep understanding in both Key Knowledge and Key Science Skills Prepare students for all forms of assessment Preparing students for both the SACs and exam with access to 1000s of past VCAA exam questions now in print and learnON new teacher only and practice SACs for every Area of Study and much more Videos by experienced teachers Students can hear another voice and perspective with 100s of new videos where expert VCE Biology teachers unpack concepts VCAA exam questions and sample problems For students of all ability levels All students can understand deeply and succeed in VCE with content mapped to Key Knowledge and Key Science Skills careful scaffolding and contemporary case studies that provide a real word context eLogbook and eWorkbook Free resources to support learning eWorkbook and the increased requirement for practical investigations eLogbook which includes over 80 practical investigations with teacher advice and risk assessments For teachers learnON includes additional teacher resources such as quarantined questions and answers curriculum grids and work programs **Laboratory Manual for Principles of General Chemistry** J. A. Beran, Mark Lassiter, 2022-09-22 Laboratory Manual for Principles of General Chemistry 11th Edition covers two semesters of a general chemistry laboratory program The material focuses on the lab experiences that reinforce the concepts that not all

experimental conclusions are the same and depend on identifying an appropriate experimental procedure selecting the proper apparatus employing the proper techniques systematically analyzing and interpreting the data and minimizing inherent variables As a result of good data a scientific and analytical conclusion is made which may or may not be right but is certainly consistent with the data Experiments write textbooks textbooks don't write experiments A student's scientific literacy grows when experiences and observations associated with the scientific method are encountered Further experimentation provides additional cause effect observations leading to an even better understanding of the experiment The 11th edition's experiments are informative and challenging while offering a solid foundation for technique safety and experimental procedure The reporting and analysis of the data and the pre and post lab questions focus on the intuitiveness of the experiment The experiments may accompany any general chemistry textbook and are compiled at the beginning of each curricular unit An Additional Notes column is included in each experiment's Report Sheet to provide a space for recording observations and data during the experiment Continued emphasis on handling data is supported by the Data Analysis section

Microscale Organic Laboratory Dana W. Mayo, Ronald M. Pike, David C. Forbes, 2023-02-07 Microscale Organic Chemistry With Multistep and Multiscale Syntheses offers a modern approach to the laboratory experience within the organic division Notable features include inquiry driven experimentation validation of the purification process and the implementation of greener processes including microwave use to perform traditional experimentation In addition to offering alternative methods to perform microscale experiments this text offers strong pedagogy to promote student success through empowerment and encouragement

*Laboratory Experiments for General, Organic and Biochemistry* Frederick A. Bettelheim, Joseph Landesberg, 1991

Laboratory Experiments for General, Organic & Biochemistry Frederick A. Bettelheim, Joseph Marvin Landesberg, 1997

Chemical News and Journal of Physical Science William Crookes, James H. Gardiner, Gerald Druce, H. W. Blood-Ryan, 1916

*Laboratory Manual for Fundamentals of General, Organic, and Biological Chemistry, Third Edition* John R. Holum, Ruth C. Denison, Sandra L. Olmsted, 1986 This Laboratory Manual is designed to accompany the texts Fundamentals of General Organic and Biological Chemistry 2nd Edition and Elements of General and Biological Chemistry 6th Edition by John R Holum It is also appropriate for any one year course treating a survey of chemistry at this level and for one term courses covering the whole spectrum of any part of it The experiments have been used by students and have been frequently revised following student polls regarding clarity and interest and suggestions from instructors The questions on the Report and Observation Sheets have again been adjusted in the light of student comments and more room for answers has been provided on many Report Sheets

Chemical News and Journal of Physical Science, 1916

*The Chemical News and Journal of Physical Science*, 1916

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