

Name: _____ per: _____

Worksheet - Reaction Rates

Use this reaction for the questions below: $C_6H_{12}O_6 (s) + 6 O_2(g) \rightarrow 6 H_2O (g) + 6 CO_2 (g)$

- What happens to the concentrations of:
 - $C_6H_{12}O_6$ & O_2 as the reaction proceeds \rightarrow ?
 - H_2O + CO_2 as the reaction proceeds \rightarrow ?
- According to the collision theory, what 3 circumstances are needed for $C_6H_{12}O_6$ & O_2 to react?
- What is the activation energy for a chemical reaction?
- Use the equation & the collision theory to explain:



Change in condition:	Does this <u>increase</u> or <u>decrease</u> the rate of reaction?	Explain why
a. <u>Increasing the temperature</u>	Ex: Increase (springs up)	Ex: Molecules move faster & collide more = increased rxn rate
b. <u>Increasing the concentration</u> of $C_6H_{12}O_6$		
c. <u>Decreasing the concentration</u> of O_2		
d. <u>Increase the surface area</u> by chewing up food in your mouth.		
e. <u>Decreasing the temperature</u>		
f. <u>Increasing the pressure</u> in the container		
g. <u>Decreasing the concentration</u> of H_2O		
h. <u>Increasing the volume</u> of the container the reaction occurs in		
i. <u>Increasing the concentration</u> of CO_2		
j. <u>Using a catalyst</u> (like salivary amylase)		

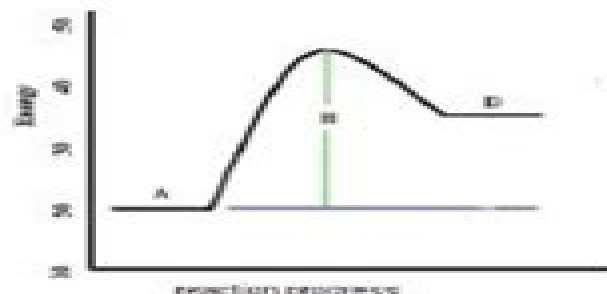
- On the accompanying energy diagram, label the following terms:

a. reactants b. products c. activation energy

- On the graph to the right, draw and label what this diagram would look like if a catalyst was added to the reaction.

- Graph reading

- How much energy (kJ) do the reactants have?
- How much energy (kJ) do the products have?
- How much energy (kJ) is required to activate this un-catalyzed reaction?
- Is this reaction endothermic or exothermic? How do you know?



18 1 Rates Of Reaction Worksheet

**Mark C. M. van Loosdrecht, Per
Halkjaer Nielsen, C. M. Lopez-
Vazquez, Damir Brdjanovic**



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Laboratory Microcomputer, 1992 **Science Spectrum** Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2003-03 ERDA Energy Research Abstracts, 1983 *Computer Based Projects for a Chemistry Curriculum* Thomas J. Manning, Aurora P. Gramatges, 2013-04-04 This e book is a collection of exercises designed for students studying chemistry courses at a high school or undergraduate level The e book contains 24 chapters each containing various activities employing applications such as MS excel spreadsheets and Spartan computational modeling Each project is explained in a simple easy to understand manner The content within this book is suitable as a guide for both teachers and students and each chapter is supplemented with practice guidelines and exercises Computer Based Projects for a Chemistry Curriculum therefore serves to bring computer based learning a much needed addition in line with modern educational trends to the chemistry classroom

Mechanical Engineering Reference Manual for the PE Exam Michael R. Lindeburg, 2006 As the most comprehensive reference and study guide available for engineers preparing for the breadth and depth mechanical PE examination the twelfth edition of the Mechanical Engineering Reference Manual provides a concentrated review of the exam topics Thousands of important equations and methods are shown and explained throughout the Reference Manual plus hundreds of examples with detailed solutions demonstrate how to use these equations to correctly solve problems on the mechanical PE exam Dozens of key charts tables and graphs including updated steam tables and two new charts of LMTD heat exchanger correction factors make it possible to work most exam problems using the Reference Manual alone A complete easy to use index saves you valuable time during the exam as it helps you quickly locate important information needed to solve problems

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worksheets and subroutines Includes a new chapter linking thermodynamics with reaction engineering A complete Instructor's Solutions Manual is available as a textbook resource

Electrode Processes VII Viola Birss, 2005

Spreadsheets for Chemists Gordon Filby, 1995 A practical guide Spreadsheets for Chemists shows chemists of all levels how to use spreadsheet programs in their daily work It highlights the possibilities provided by Lotus 1 2 3 the most widely used spreadsheet program in the sciences Apart from hundreds of example fragments it features Detailed discussion of the most relevant functions and all the macro commands An accompanying diskette containing 57 worksheets involving many different fields of chemical research and teaching An extensive glossary of spreadsheet terms Three appendices covering 1 2 3 s competitors and add in packages the use of Windows based spreadsheets and how what if analysis and back solving is applied Although the disk examples were developed for Lotus 1 2 3 DOS Versions 2 x x 2 4 the worksheets are compatible with the newer Windows versions and those of their main competitors Borland's Quattro Pro and Microsoft's Excel Several compatible spreadsheets AsEasyAs Proqube might also be as used as inexpensive alternatives The author is a senior scientist at the Nuclear Research Centre in Karlsruhe Germany He has been using spreadsheet software for nearly ten years successfully in a variety of chemical problems

Handbook of Contemporary Psychotherapy William O'Donohue, Steven R. Graybar, 2009 Handbook of Contemporary Psychotherapy explores a wide range of constructs not captured in the DSM or traditional research but that play important roles in psychotherapy cases To provide readers with a tool bag of practical techniques they can use in these cases editors William O Donohue and Steven R Graybar present chapters written by leading clinical authorities on such topics as the process of change in psychotherapy attachment and terror management projective identification terminating psychotherapy therapeutically shame and its many ramifications for clients dream work boundaries forgiveness the repressed and recovered memory debate and many others

Field Procedures for Verification and Adjustment of Fire Behavior Predictions Richard C. Rothermel, George C. Rinehart, 1983 The problem of verifying predictions of fire behavior primarily rate of spread is discussed in terms of the fire situation for which predictions are made and the type of fire where data are to be collected Procedures for collecting data and performing analysis are presented for both readily accessible fires where data should be complete and for inaccessible fires where data are likely to be incomplete The material is prepared for use by field units with no requirements for special equipment or computers Procedures for selecting the most representative fuel model for overall evaluation of prediction capability and for developing calibration coefficients to improve future predictions are presented Illustrated examples from several fires are included The material is a companion publication to the fire prediction manual titled INT GTR 143 How to predict the spread and intensity of forest and range fire by R C Rothermel

General Technical Report INT. , 1990

Experimental Methods in Wastewater Treatment Mark C. M. van Loosdrecht, Per Halkjaer Nielsen, C. M. Lopez-Vazquez, Damir Brdjanovic, 2016-05-15 Over the past twenty years the knowledge and understanding of wastewater treatment has advanced extensively and moved away from empirically based

approaches to a fundamentally based first principles approach embracing chemistry microbiology and physical and bioprocess engineering often involving experimental laboratory work and techniques Many of these experimental methods and techniques have matured to the degree that they have been accepted as reliable tools in wastewater treatment research and practice For sector professionals especially a new generation of young scientists and engineers entering the wastewater treatment profession the quantity complexity and diversity of these new developments can be overwhelming particularly in developing countries where access to advanced level laboratory courses in wastewater treatment is not readily available In addition information on innovative experimental methods is scattered across scientific literature and only partially available in the form of textbooks or guidelines This book seeks to address these deficiencies It assembles and integrates the innovative experimental methods developed by research groups and practitioners around the world Experimental Methods in Wastewater Treatment forms part of the internet based curriculum in wastewater treatment at UNESCO IHE and as such may also be used together with video records of experimental methods performed and narrated by the authors including guidelines on what to do and what not to do The book is written for undergraduate and postgraduate students researchers laboratory staff plant operators consultants and other sector professionals

Computer Algebra in Scientific Computing CASC'99 Victor G. Ganzha, Ernst W. Mayr, Evgenii V. Vorozhtsov, 2012-12-06 The development of powerful computer algebra systems has considerably extended the scope of problems of scientific computing which can now be solved successfully with the aid of computers However as the field of applications of computer algebra in scientific computing becomes broader and more complex there is a danger of separation between theory systems and applications For this reason we felt the need to bring together the researchers who now apply the tools of computer algebra for the solution of problems in scientific computing in order to foster new and closer interactions CASC 99 is the second conference devoted to applications of computer algebra in scientific computing The first conference in this sequence CASC 98 was held 20-24 April 1998 in St Petersburg Russia This volume contains revised versions of the papers submitted by the participants and accepted by the program committee after a thorough reviewing process The collection of papers included in the proceedings covers various topics of computer algebra methods algorithms and software applied to scientific computing symbolic numeric analysis and solving differential equations efficient computations with polynomials groups matrices and other related objects special purpose programming environments application to physics mechanics optics and to other areas In particular a significant group of papers deals with applications of computer algebra methods for the solution of current problems in group theory which mostly arise in mathematical physics

Chemists in a Social and Historical Context Dorothy Warren, 2001 This book focuses on strategies for teaching about people in chemistry and is an introduction to some chemists who played a role in the development of major ideas in the subject Midwest

Chemical Process Engineering, Volume 2 A. Kayode Coker, Rahmat Sotudeh-Gharebagh, 2022-07-20 CHEMICAL PROCESS ENGINEERING Written by one of the most prolific and

respected chemical engineers in the world and his co author also a well known and respected engineer this two volume set is the new standard in the industry offering engineers and students alike the most up to date comprehensive and state of the art coverage of processes and best practices in the field today This new two volume set explores and describes integrating new tools for engineering education and practice for better utilization of the existing knowledge on process design Useful not only for students university professors and practitioners especially process chemical mechanical and metallurgical engineers it is also a valuable reference for other engineers consultants technicians and scientists concerned about various aspects of industrial design The text can be considered as complementary to process design for senior and graduate students as well as a hands on reference work or refresher for engineers at entry level The contents of the book can also be taught in intensive workshops in the oil gas petrochemical biochemical and process industries The book provides a detailed description and hands on experience on process design in chemical engineering and it is an integrated text that focuses on practical design with new tools such as Microsoft Excel spreadsheets and UniSim simulation software Written by two of the industry's most trustworthy and well known authors this book is the new standard in chemical biochemical pharmaceutical petrochemical and petroleum refining Covering design analysis simulation integration and perhaps most importantly the practical application of Microsoft Excel UniSim software this is the most comprehensive and up to date coverage of all of the latest developments in the industry It is a must have for any engineer or student's library

Scientific and Technical Aerospace Reports, 1980 **Department Of Defense Index of Specifications and Standards Alphabetical Listing Part I July 2005**, *How to Predict the Spread and Intensity of Forest and Range Fires* Richard C. Rothermel, 1983 This manual documents procedures for estimating the rate of forward spread intensity flame length and size of fires burning in forests and rangelands Contains instructions for obtaining fuel and weather data calculating fire behavior and interpreting the results for application to actual fire problems *Foundation Science Biology* Chandan Sengupta, Place of Publication Arabinda Nagar Bankura 722101 WB India Resource Centre This Handbook is prepared for providing some additional study materials to fellow students of Class X of the National Curriculum and State Boards Most of the questions were adopted from the previous year question papers of different boards and duly presented in the form of different worksheets Topics covered 1 Biological processes 2 Reproduction in Plants and Animals 3 Genetics and Evolution 4 Physiology of Hearing and Vision For additional practice questions check out the Extended Study Modules by exploring the public domains Chandan Sukumar Sengupta You can use them to study on internet your smartphone tablet or computer anytime anywhere *Chemical Kinetics with Mathcad and Maple* Viktor Korobov, Valery Ochkov, 2011-05-26 The authors explain at length the principles of chemical kinetics and approaches to computerized calculations in modern software suites mathcad and maple Mathematics is crucial in determining correlations in chemical processes and requires various numerical approaches Often significant issues with mathematical formalizations of chemical problems arise and many kinetic problems can't be solved without computers

Numerous problems encountered in solving kinetics calculations with detailed descriptions of the numerical tools are given. Special attention is given to electrochemical reactions which fills a gap in existing texts not covering this topic in detail. The material demonstrates how these suites provide quick and precise behavior predictions for a system over time for postulated mechanisms. Examples i.e. oscillating and non isothermal reactions help explain the use of mathcad more efficiently. Also included are the results of authors own research toward effective computations.

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