

## Chemistry 2<sup>nd</sup> Semester Final Review **KEY**

\*This is meant as a guide. It does NOT contain every single thing you need to know for the final exam. Review notes, benchmark review sheets, homeworks, chapter study guides, etc.\*

Bring your book to school by Monday for turn in (seniors should bring book to bookstore by themselves ASAP)

Gas Laws (Ch. 13):

*Subtopics: atmospheric pressure, Dalton's law of partial pressures, combined gas law, Ideal gas law, gas stoichiometry (22.4 L/mol for a gas at STP)*

Practice questions:

1. If a gas occupies 3.8 L at a pressure of 2.71 atm, what would the pressure be if the volume changes to 1.47 L? (Temp. and amt. of gas constant)  
 $V_1 = 3.8 \text{ L}$ ;  $P_1 = 2.71 \text{ atm}$   
 $V_2 = 1.47 \text{ L}$ ;  $P_2 = ? \text{ Atm}$   
Since all units are standard (L, atm), we do not need to convert the units before proceeding.  
 $(P_1 V_1)/T_1 = (P_2 V_2)/T_2$   
T goes away (not mentioned in problem)  
 $P_1 V_1 = P_2 V_2$   
Isolate for  $P_2$ :  $P_2 = (P_1 V_1)/V_2$   
 $P_2 = (2.71 \text{ atm} \times 3.8 \text{ L})/(1.47 \text{ L}) = 7.0 \text{ atm}$  (L cancelled and it's 2 sig figs)
2. A gas has a volume of 1.49 L at a temperature of 34.75 degrees Celsius. What would the volume be at 78.41 degrees Celsius? (pressure & amt. of gas constant)  
 $V_1 = 1.49 \text{ L}$ ,  $T_1 = 34.75 \text{ degrees Celsius}$   
 $V_2 = ? \text{ L}$ ,  $T_2 = 78.41 \text{ degrees Celsius}$   
We need to convert from Celsius to Kelvins before proceeding.  
 $T_1 = 34.75 + 273 = 307.75 \text{ K}$   
 $T_2 = 78.41 + 273 = 351.41 \text{ K}$   
 $(P_1 V_1)/T_1 = (P_2 V_2)/T_2$   
Get rid of P  
 $V_1/T_1 = V_2/T_2$   
Isolate  $V_2$ :  $V_2 = (V_1/T_1)T_2$   
 $V_2 = (1.49 \text{ L}/307.75 \text{ K})(351.41 \text{ K}) = 1.70 \text{ L}$
3. What volume is occupied by 8.47 g of hydrogen gas at 84.7 degrees Celsius and 1.04 atm?  
The combined gas law won't work here. You only have one condition and nothing changes.  
 $PV = nRT$  will work. ( $n$  = moles and  $R = 0.08206 \text{ L atm/K mol}$ )  
 $P = 1.04 \text{ atm}$ ,  $V = ? \text{ L}$ ,  $n = \text{OOPS we need to convert from grams to moles!}$ ,  $T = 84.7 \text{ degrees Celsius} + 273 = 357.7 \text{ K}$   
 $n$ : Hydrogen gas is diatomic!  
 $8.47 \text{ g H}_2 \times (1 \text{ mol H}_2 / 2.02 \text{ g H}_2) = 4.193069307 \text{ mol H}_2$   
Isolate  $V$ :  $V = (nRT)/P = (4.193069307 \text{ mol H}_2 \times 0.08206 \text{ L atm/K mol} \times 357.7 \text{ K}) / 1.04 \text{ atm} = 118 \text{ L}$
4. What volume is occupied by 56.75 g of oxygen gas at STP?

# 2nd Semester Chemistry Final Exam Study Guide

**Sheila Tobias, Jacqueline Raphael**



## 2nd Semester Chemistry Final Exam Study Guide:

**Directory of Distance Learning Opportunities** Modoc Press, Inc.,2003-02-28 This book provides an overview of current K 12 courses and programs offered in the United States as correspondence study or via such electronic delivery systems as satellite cable or the Internet The Directory includes over 6 000 courses offered by 154 institutions or distance learning consortium members Following an introduction that describes existing practices and delivery methods the Directory offers three indexes Subject Index of Courses Offered by Level Course Level Index Geographic Index All information was supplied by the institutions Entries include current contact information a description of the institution and the courses offered grade level and admission information tuition and fee information enrollment periods delivery information equipment requirements credit and grading information library services and accreditation

**Who's the New Kid in Chemistry?** John D. Butler,2013-12-12 Who s the New Kid in Chemistry offers an unprecedented look at student engagement and teacher best practices through the eyes of an educational researcher enrolled as a public high school student Over the course of seventy nine consecutive days John D Butler participates in and observes Rhode Island 2013 Teacher of the Year Jessica M Waters s high school chemistry class documenting his experiences as they unfold Who s the New Kid in Chemistry is a compelling example of what can be accomplished when an educational researcher and teacher collaborate in the classroom This work includes a discussion on flexible homework assignments data driven instruction and thirty teacher best practices This book is an invaluable resource for teachers across all content areas masters and doctoral research method classes and future Teachers of the Year

Teaching General Chemistry Mansoor Niaz,2008 The main objective of this monograph is to incorporate history and philosophy of science in the chemistry curriculum in order to provide students an overview of the dynamics of scientific research which involves controversies conflicts and rivalries among scientists that is the humanising aspects of science A major thesis of this book is the parallel between the construction of knowledge by the students and the scientists In looking for this relationship it is not necessary that ontogeny recapitulate phylogeny but rather to establish that students can face similar difficulties in conceptualising problems as those faced by the scientists in the past Given the vast amount of literature on students alternative conceptions misconceptions in science it is plausible to suggest that these can be considered not as mistakes but rather as tentative models leading to greater conceptual understanding Just as scientists resist changes in the hard core of their beliefs by offering auxiliary hypotheses students may adopt similar strategies Conceptual change in science education can thus be conceptualised as building of tentative models that provide greater explanatory power to students understanding

*Organic Chemistry II For Dummies* John T. Moore,Richard H. Langley,2023-01-05 With Dummies at your side you can conquer O chem Organic chemistry is well tough With Organic Chemistry II For Dummies you can and will succeed at one of the most difficult college courses you ll encounter We make the subject less daunting in the second semester with a helpful review of what you learned in Organic Chemistry I clear

descriptions of organic reactions hints for working with synthesis and roadmaps and beyond You'll love the straightforward effective way we explain advanced O chem material This updated edition is packed with new practice problems fresh examples and updated exercises to help you learn quickly Observe from a macroscopic and microscopic view understand the properties of organic compounds get an overview of carbonyl group basics and everything else you'll need to pass the class Organic Chemistry II For Dummies is packed with tips to help you boost your exam scores stay on track with assignments and navigate advanced topics with confidence Brush up on concepts from Organic Chemistry I Understand the properties of organic compounds Access exercises and practice questions to hone your knowledge Improve your grade in the second semester of Organic Chemistry Organic Chemistry II For Dummies is for students who want a reference that explains concepts and terms more simply It's also a perfect refresher O chem veterans preparing for the MCAT

*Writing and Learning in the Science Classroom* Carolyn S. Wallace, Brian B. Hand, Vaughan Prain, 2004-05-19 This volume is of interest to science educators graduate students and classroom teachers The book will also be an important addition to any scholarly library focusing on science education science literacy and writing This book is unique in that it synthesizes the research of the three leading researchers in the field of writing to learn science Carolyn S Wallace Brian Hand and Vaughan Prain It includes a comprehensive review of salient literature in the field detailed reports of the authors own research studies and current and future issues on writing in science The book is the first to definitely answer the question Does writing improve science learning Further it provides evidence for some of the mechanisms through which learning occurs It combines both theory and practice in a unique way Although primarily a tool for research classroom teachers will also find many practical suggestions for using writing in the science classroom

Teach Students How to Learn Sandra Yancy McGuire, 2023-07-03 Co published with NISOD Miriam a freshman Calculus student at Louisiana State University made 37.5% on her first exam but 83% and 93% on the next two Matt a first year General Chemistry student at the University of Utah scored 65% and 55% on his first two exams and 95% on his third These are representative of thousands of students who decisively improved their grades by acting on the advice described in this book What is preventing your students from performing according to expectations Sandra McGuire offers a simple but profound answer If you teach students how to learn and give them simple straightforward strategies to use they can significantly increase their learning and performance For over a decade Sandra McGuire has been acclaimed for her presentations and workshops on metacognition and student learning because the tools and strategies she shares have enabled faculty to facilitate dramatic improvements in student learning and success This book encapsulates the model and ideas she has developed in the past fifteen years ideas that are being adopted by an increasing number of faculty with considerable effect The methods she proposes do not require restructuring courses or an inordinate amount of time to teach They can often be accomplished in a single session transforming students from memorizers and regurgitators to students who begin to think critically and take responsibility for their own learning Sandra McGuire takes

the reader sequentially through the ideas and strategies that students need to understand and implement First she demonstrates how introducing students to metacognition and Bloom s Taxonomy reveals to them the importance of understanding how they learn and provides the lens through which they can view learning activities and measure their intellectual growth Next she presents a specific study system that can quickly empower students to maximize their learning Then she addresses the importance of dealing with emotion attitudes and motivation by suggesting ways to change students mindsets about ability and by providing a range of strategies to boost motivation and learning finally she offers guidance to faculty on partnering with campus learning centers She pays particular attention to academically unprepared students noting that the strategies she offers for this particular population are equally beneficial for all students While stressing that there are many ways to teach effectively and that readers can be flexible in picking and choosing among the strategies she presents Sandra McGuire offers the reader a step by step process for delivering the key messages of the book to students in as little as 50 minutes Free online supplements provide three slide sets and a sample video lecture This book is written primarily for faculty but will be equally useful for TAs tutors and learning center professionals For readers with no background in education or cognitive psychology the book avoids jargon and esoteric theory The National Guide to Educational Credit for Training Programs American Council on Education,2005 Highlights over 6 000 educational programs offered by business labor unions schools training suppliers professional and voluntary associations and government agencies

**Cliffs TASP Preparation Guide** Jerry Bobrow,2007-08-13 The CliffsTestPrep series offers full length practice exams that simulate the real tests proven test taking strategies to increase your chances at doing well and thorough review exercises to help fill in any knowledge gaps Cliffs TASP Preparation Guide can help you get ready for the Texas Academic Skills Program Since the TASP requires you to use some basic skills you may not have used recently thorough preparation is the key to doing your best This guide developed by test preparation experts and instructors contains materials techniques and strategies for taking the TASP that have been carefully researched and tested and are currently used in college and teachers association preparation programs throughout the country In this guide you ll find Two full length practice tests An overview of the different sections of the test Sample questions and English review and a writing sample Answers and complete explanations of all questions on the practice tests The TASP measures your abilities in three areas reading mathematics and writing This book will help you understand the different types of questions that appear in each section of the test giving you clear explanations of the directions as well as plenty of sample questions to help sharpen your test taking skills With guidance from the CliffsTestPrep series you ll feel at home in any standardized test environment **Annual**

**Catalogue** United States Air Force Academy,1984 *United States Air Force Academy* United States Air Force Academy, **Peterson's Annual Guides to Graduate Study** ,1982-12 The Hidden Curriculum—Faculty-Made Tests in Science Sheila Tobias,Jacqueline Raphael,2013-06-29 This resource manual for college level science instructors reevaluates the role

of testing in their curricula and describes innovative techniques pioneered by other teachers part I examines the effects of the following on lower division courses changes in exam content format and environment revisions in grading practices student response colleague reaction the sharing of new practices with other interested professionals and more The book includes a comprehensive introduction faculty composed narratives commentaries by well known science educators and a visual index to 100 more refined innovations      *Specifications Grading 2.0* Linda B. Nilson, Joseph A. Packowski, 2025-09-15 This second edition of the alternative grading classic revisits specs grading with a robust body of research exemplars and strategies to elevate the quality of student work increase engagement and buy in reduce faculty stress and cultivate students career competencies Nilson and Packowski present the unique characteristics of the specs grading schema all of which simplify faculty decision making reduce antagonism between the evaluator and the evaluated and increase student receptivity to meaningful feedback thus facilitating a mutually beneficial rigorous learning process Used consistently over time specs grading can restore credibility to grades by demonstrating and making transparent to all stakeholders the learning outcomes that students achieve This book features five new chapters stemming from firsthand accounts of dozens of instructors actively using specs grading and new material in six of the remaining eight chapters It lays out the surprisingly simple transition process positioning specs grading as the most viable and easy to use system available to faculty      Medical Laboratory Technician Certification Study Guide 2025-2026 Lucas Blade Hebert, Master Laboratory Science Ace Your Certification Ready to excel in your MLT or MLS certification exam This comprehensive review guide provides everything you need to succeed from fundamental concepts to advanced clinical applications 700 Practice Questions Test your knowledge across all laboratory disciplines with detailed explanations that reinforce learning 26 Complete Chapters Master Hematology Chemistry Microbiology Immunology Blood Banking and more with systematic easy to follow content Real Clinical Cases Apply your knowledge through authentic laboratory scenarios that mirror actual practice High Yield Review Focus your study time on the most frequently tested concepts with targeted review sections Test Taking Strategies Learn proven techniques to maximize your performance on examination day From basic laboratory principles to complex diagnostic challenges this guide builds the knowledge and confidence you need for certification success Perfect for MLT and MLS candidates laboratory science students and practicing professionals seeking continuing education Transform your preparation Achieve your certification goals      Whole-class Inquiry Dennis W. Smithenry, Joan Gallager-Bolos, 2009 In response to requests from science education professionals this is the perfect vehicle for implementing and assessing this concept of whole class inquiry in your classroom This is a must have package for preservice and inservice middle and high school science teachers      *Journal of Developmental Education* ,2015      **Advances in Medical Education** A.J.J.A. Scherpbier, Cees P.M. van der Vleuten, J.J. Rethans, A.F.W. van der Steeg, 2012-12-06 About 550 registrants from 51 different countries attended the Seventh Ottawa Conference on Medical Education and Assessment in Maastricht We received 525 abstracts for the conference

divided in thematic poster sessions and platform presentations Organising the conference was an honour and we tried to meet the high standards of a friendly and relaxed atmosphere which has characterized previous Ottawa conferences During and after the conference about 250 papers were submitted for publication in the conference proceedings leaving us little time for a post conference depression Despite the large number of papers the editors have attempted to review and edit the papers as care fully as possible Occasionally however correspondence exceeded reasonable deadlines preventing careful editing of a small number of the papers Although we felt that our editorial task was not quite finished we nevertheless decided to include these papers We thank the many authors for their enthusiastic and prompt response to occasionally tedious editorial suggestions and requests We are sure that this collective effort has resulted in a book that will make an important contribution to the field of medical education The editors want to thank Jocelyn Flippo Berger whose expertise with desk top publishing and perseverance was a great help

**MCAT 2015: What the Test Change Means for You Now** Kaplan,2014-08-05 Big changes are coming to the MCAT in 2015 and Kaplan is here to help you prepare for them With four brand new sections 80% more questions and the addition of new science content including biochemistry psychology and sociology the 2015 MCAT will be a completely different test In order to be prepared you need to understand the exam and start planning for it now and this guide is the first step MCAT 2015 What the Test Change Means for You Now is your complete guide to the new exam with outlines of both old and new subject areas a short form practice test to help you get ready and advice on choosing and prepping for the MCAT that s right for you

**Essentials of Physical Chemistry** Don Shillady,2011-07-27 At a time when U S high school students are producing low scores in mathematics and science on international examinations a thorough grounding in physical chemistry should not be considered optional for science undergraduates Based on the author s thirty years of teaching Essentials of Physical Chemistry merges coverage of calculus with chemistry and molecular physics in a friendly yet thorough manner Reflecting the latest ACS guidelines the book can be used as a one or two semester course and includes special topics suitable for senior projects The book begins with a math and physics review to ensure all students start on the same level and then discusses the basics of thermodynamics and kinetics with mathematics tuned to a level that stretches students abilities It then provides material for an optional second semester course that shows students how to apply their enhanced mathematical skills in a brief historical development of the quantum mechanics of molecules Emphasizing spectroscopy the text is built on a foundation of quantum chemistry and more mathematical detail and examples It contains sample classroom tested exams to gauge how well students know how to use relevant formulas and to display successful understanding of key concepts Coupling the development of mathematical skills with chemistry concepts encourages students to learn mathematical derivations Mini biographies of famous scientists make the presentation more interesting from a people point of view Stating the basic concepts of quantum chemistry in terms of analogies provides a pedagogically useful technique Covering key topics such as the critical point of a van der Waals gas the

Michaelis Menten equation and the entropy of mixing this classroom tested text highlights applications across the range of chemistry forensic science pre medical science and chemical engineering In a presentation of fundamental topics held together by clearly established mathematical models the book supplies a quantitative discussion of the merged science of physical chemistry     **Paperbound Books in Print** ,1992



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