

Chapter 15

Chemical Equilibrium Test

Prepared by John H. Nelson and Kenneth C. Kemp, both of the University of Nevada. This manual contains 43 finely tuned experiments chosen to introduce students to basic lab techniques and to illustrate core chemical principles. You can also customize these labs through Catalyst, our custom database program. For more information, visit <http://www.pearsonc>

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ustom.com/custom-library/catalyst In the Thirteenth Edition, all experiments were carefully edited for accuracy and safety. Pre-labs and questions were revised and several experiments were added or changed. Two of the new experiments have been added to Chapter 11. A Perfect Plan for the Perfect Score We want you to succeed on your AP* exam. That's why we've created this 5-step plan to help you study more effectively, use your preparation time wisely, and get your best score.

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college or university to which they are applying; "OR" (2) To demonstrate proficiency in Chemistry. The SAT II: Chemistry exam is designed for students who have taken one year of college preparatory chemistry. Who Administers The Test? The SAT II: Chemistry Subject Test is developed by the College Board and administered by Educational Testing Service (ETS). The test development process involves the assistance of educators throughout the country, and is designed and implemented to ensure that the content and difficulty level of the test are appropriate. When Should the SAT II: Chemistry be Taken? If you are applying to a college that

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requires Subject Test scores as part of the admissions process, you should take the SAT II: Chemistry Subject Test toward the end of your junior year or at the beginning of your senior year. If your scores are being used only for placement purposes, you may be able to take the test in the spring of your senior year. For more information, be sure to contact the colleges to which you are applying. When and Where is the Test Given? The SAT II: Chemistry Subject Test is administered five times a year at many locations throughout the country; mostly high schools. To receive information on upcoming administrations of the exam, consult the publication Taking the

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SAT II: Subject Tests, which may be obtained from your guidance counselor or by contacting: College Board SAT Program P.O. Box 6200 Princeton, NJ 08541-6200 Phone: (609) 771-7600 Website: <http://www.collegeboard.com> Is There a Registration Fee? Yes. There is a registration fee to take the SAT II: Chemistry. Consult the publication Taking the SAT II: Subject Tests for information on the fee structure. Financial assistance may be granted in certain situations. To find out if you qualify and to register for assistance, contact your academic advisor. HOW TO USE THIS BOOK What Do I Study First? Remember that the SAT II: Chemistry Subject Test is designed

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to test knowledge that has been acquired throughout your education. Therefore, the best way to prepare for the exam is to refresh yourself by thoroughly studying our review material and taking the sample tests provided in this book. They will familiarize you with the types of questions, directions, and format of the SAT II: Chemistry Subject Test. To begin your studies, read over the review and the suggestions for test-taking, take one of the practice tests to determine your area(s) of weakness, and then restudy the review material, focusing on your specific problem areas. The course review includes the information you need to know when taking the

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exam. Be sure to take the remaining practice tests to further test yourself and become familiar with the format of the SAT II: Chemistry Subject Test. When Should I Start Studying? It is never too early to start studying for the SAT II: Chemistry test. The earlier you begin, the more time you will have to sharpen your skills. Do not procrastinate! Cramming is not an effective way to study, since it does not allow you the time needed to learn the test material. The sooner you learn the format of the exam, the more comfortable you will be when you take the exam. **FORMAT OF THE SAT II: CHEMISTRY** The SAT II: Chemistry is a one-hour exam consisting of 85 multiple-

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choice questions. The first part of the exam consists of classification questions. This question type presents a list of statements or questions that you must match up with a group of choices lettered (A) through (E). Each choice may be used once, more than once, or not at all. The exam then shifts to relationship analysis questions which you will answer in a specially numbered section of your answer sheet. You will have to determine if each of two statements is true or false and if the second statement is a correct explanation of the first. The last section is composed strictly of multiple-choice questions with choices lettered (A) through (E). Material Tested The following

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chart summarizes the distribution of topics covered on the SAT II:

Chemistry Subject Test. Topic / Percentage / Number of Questions
Atomic & Molecular Structure / 25% / 21 questions
States of Matter / 15% / 13 questions
Reaction Types / 14% / 12 questions
Stoichiometry / 12% / 10 questions
Equilibrium & Reaction Times / 7% / 6 questions
Thermodynamics / 6% / 5 questions
Descriptive Chemistry / 13% / 11 questions
Laboratory / 8% / 7 questions
The questions on the SAT II: Chemistry are also grouped into three larger categories according to how they test your understanding of the subject material. Category / Definition / Approximate Percentage of Test 1)

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Factual Recall / Demonstrating a knowledge and understanding of important concepts and specific information / 20% 2) Application / Taking a specific principle and applying it to a practical situation / 45% 3) Integration / Inferring information and drawing conclusions from particular relationships / 35% STUDYING FOR THE SAT II: CHEMISTRY It is very important to choose the time and place for studying that works best for you. Some students may set aside a certain number of hours every morning to study, while others may choose to study at night before going to sleep. Other students may study during the day, while waiting on line, or even while

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eating lunch. Only you can determine when and where your study time will be most effective. Be consistent and use your time wisely. Work out a study routine and stick to it! When you take the practice tests, try to make your testing conditions as much like the actual test as possible. Turn your television and radio off, and sit down at a quiet desk or table free from distraction. Make sure to clock yourself with a timer. As you complete each practice test, score it and thoroughly review the explanations to the questions you answered incorrectly; however, do not review too much at any one time. Concentrate on one problem area at a time by reviewing the

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questions and explanations, and by studying our review until you are confident you completely understand the material. Keep track of your scores. By doing so, you will be able to gauge your progress and discover general weaknesses in particular sections. You should carefully study the reviews that cover your areas of difficulty, as this will build your skills in those areas.

TEST TAKING TIPS Although you may be unfamiliar with standardized tests such as the SAT II: Chemistry Subject Test, there are many ways to acquaint yourself with this type of examination and help alleviate your test-taking anxieties. Become comfortable with the format of the exam. When you

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are practicing to take the SAT II: Chemistry Subject Test, simulate the conditions under which you will be taking the actual test. Stay calm and pace yourself. After simulating the test only a couple of times, you will boost your chances of doing well, and you will be able to sit down for the actual exam with much more confidence. Know the directions and format for each section of the test. Familiarizing yourself with the directions and format of the exam will not only save you time, but will also ensure that you are familiar enough with the SAT II: Chemistry Subject Test to avoid nervousness (and the mistakes caused by being nervous). Do your scratchwork in

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the margins of the test booklet. You will not be given scrap paper during the exam, and you may not perform scratchwork on your answer sheet. Space is provided in your test booklet to do any necessary work or draw diagrams. If you are unsure of an answer, guess. However, if you do guess - guess wisely. Use the process of elimination by going through each answer to a question and ruling out as many of the answer choices as possible. By eliminating three answer choices, you give yourself a fifty-fifty chance of answering correctly since there will only be two choices left from which to make your guess. Mark your answers in the appropriate spaces on the answer sheet. Fill in

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the oval that corresponds to your answer darkly, completely, and neatly. You can change your answer, but remember to completely erase your old answer. Any stray lines or unnecessary marks may cause the machine to score your answer incorrectly. When you have finished working on a section, you may want to go back and check to make sure your answers correspond to the correct questions. Marking one answer in the wrong space will throw off the rest of your test, whether it is graded by machine or by hand. You don't have to answer every question. You are not penalized if you do not answer every question. The only penalty results from

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answering a question incorrectly. Try to use the guessing strategy, but if you are truly stumped by a question, remember that you do not have to answer it. Work quickly and steadily. You have a limited amount of time to work on each section, so you need to work quickly and steadily. Avoid focusing on one problem for too long. Before the Test Make sure you know where your test center is well in advance of your test day so you do not get lost on the day of the test. On the night before the test, gather together the materials you will need the next day: - Your admission ticket - Two forms of identification (e.g., driver's license, student identification card, or current alien

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registration card) - Two No. 2 pencils with erasers - Directions to the test center - A watch (if you wish) but not one that makes noise, as it may disturb other test-takers

On the day of the test, you should wake up early (after a good night's rest) and have breakfast. Dress comfortably, so that you are not distracted by being too hot or too cold while taking the test. Also, plan to arrive at the test center early. This will allow you to collect your thoughts and relax before the test, and will also spare you the stress of being late. If you arrive after the test begins, you will not be admitted to the test center and you will not receive a refund. During the Test

When you arrive at the test center,

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try to find a seat where you feel most comfortable. Follow all the rules and instructions given by the test supervisor. If you do not, you risk being dismissed from the test and having your scores canceled. Once all the test materials are passed out, the test instructor will give you directions for filling out your answer sheet. Fill this sheet out carefully since this information will appear on your score report. After the Test When you have completed the SAT II: Chemistry Subject Test, you may hand in your test materials and leave. Then, go home and relax! When Will I Receive My Score Report and What Will It Look Like? You should receive your score report about five

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weeks after you take the test. This report will include your scores, percentile ranks, and interpretive information.

The Molecular Science
An Apex Learning Guide
Modern Thermodynamics for
Chemists and Biochemists
McGraw-Hill's SAT Subject Test
Chemistry, 3rd Edition
Municipal Solid Waste Incinerator
Residues

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topics tested, atom, periodic table, bonding, geometry-hybridization, stoichiometry, gases, liquids and solids, thermodynamics, solutions, equilibrium, acids and bases, kinetics, redox, nuclear chemistry, organic chemistry, and writing reactions. The Labs feature 20 multiple-choice questions, multiple free-response questions on each topic, with answers on each topic, with answers and explanations, scoring rubrics, and 2 full-length practice exams Structured like the actual exam Complete with answers and explanations AP is a registered trademark of the College Board, which was not involved in the production of, and does not endorse, this product.

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you need to do your very best. This AP Chemistry study guide gives you winning test-taking tips, multiple-choice strategies, and topic guidelines, as well as great advice on optimizing your study time and hitting the top of your game on test day. This user-friendly guide helps you prepare without perspiration by developing a pre-test plan, organizing your study time, and getting the most out of your AP course. You'll get help understanding atomic structure and bonding, grasping atomic geometry, understanding how colliding particles produce states, and much more. Two full-length practice exams help you build your confidence, get comfortable with test formats, identify your strengths and weaknesses, and focus your studies. Discover how to Create and follow a pretest plan Understand

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everything you must know about the exam Develop a multiple-choice strategy Figure out displacement, combustion, and acid-base reactions Get familiar with stoichiometry Describe patterns and predict properties Get a handle on organic chemistry nomenclature Know your way around laboratory concepts, tasks, equipment, and safety Analyze laboratory data Use practice exams to maximize your score AP Chemistry For Dummies gives you the support, confidence, and test-taking know-how you need to demonstrate your ability when it matters most.

This introductory textbook is based on the premise that the foundation of good science is good data. The educational challenge addressed by this introductory textbook is how to present a sampling of the wide range

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of mathematical tools available for laboratory research to well-motivated students with a mathematical background limited to an introductory course in calculus.

Gas Dynamics of Explosions and Reactive Systems documents the proceedings of the 6th Colloquium held at the Royal Institute of Technology in Stockholm, Sweden, 22-26 August 1977. The meeting was held under the auspices of the Royal Swedish Academy of Sciences and the International Academy of Astronautics. The scientific program included over one hundred papers. The contributions in this volume are organized into four parts. Part I contains papers on gaseous detonations. It covers topics such as theoretical model of a detonation cell; spherical detonations in hydrocarbon-

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air mixtures; and shock wave propagation in tubes filled with water foams. Part II presents studies on explosions, such as the detonation of hydrogen azide and propagation of a laser-supported detonation wave. Part III examines condensed phase detonations. It includes papers on the mechanism of the divergent and convergent dark waves originating at the charge boundary in detonating liquid homogeneous explosives with unstable detonation front; and initiation studies in sensitized nitromethane. Part IV presents discussions on turbulent detonations, covering topics such as the computational aspects of turbulent combustion and problems and techniques in turbulent reactive systems.

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This text defines the concepts needed to learn or review cardiac auscultation. The combination of

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**MCQs Carbonyl Compounds
Multiple Choice Questions: 29
MCQs Carboxylic Acids and Acyl
Compounds Multiple Choice
Questions: 27 MCQs Chemical
Bonding Multiple Choice Questions:
213 MCQs Chemistry of Life
Multiple Choice Questions: 29
MCQs Electrode Potential Multiple
Choice Questions: 62 MCQs
Electrons in Atoms Multiple Choice
Questions: 53 MCQs Enthalpy
Change Multiple Choice Questions:
45 MCQs Equilibrium Multiple
Choice Questions: 50 MCQs Group
IV Multiple Choice Questions: 53
MCQs Groups II and VII Multiple
Choice Questions: 180 MCQs
Halogenoalkanes Multiple Choice
Questions: 33 MCQs Hydrocarbons
Multiple Choice Questions: 53
MCQs Introduction to Organic**

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**Chemistry Multiple Choice
Questions: 52 MCQs Ionic Equilibria
Multiple Choice Questions: 56
MCQs Lattice Energy Multiple
Choice Questions: 33 MCQs Moles
and Equations Multiple Choice
Questions: 50 MCQs Nitrogen and
Sulfur Multiple Choice Questions:
89 MCQs Organic and Nitrogen
Compounds Multiple Choice
Questions: 54 MCQs Periodicity
Multiple Choice Questions: 202
MCQs Polymerization Multiple
Choice Questions: 36 MCQs Rates
of Reaction Multiple Choice
Questions: 39 MCQs Reaction
Kinetics Multiple Choice Questions:
52 MCQs Redox Reactions and
Electrolysis Multiple Choice
Questions: 55 MCQs States of
Matter Multiple Choice Questions:
66 MCQs Transition Elements**

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chemistry equations and use
formulas with ease Got a
grasp on the chemistry terms
and concepts you need to
know, but get lost halfway
through a problem or, worse
yet, not know where to begin?
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guide helps you solve many

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aquatic ecosystems. Specific chapters address the dosing and exposure components of such studies and how they influence experimental design. Advantages and disadvantages of various statistical designs are addressed in detail. Regulatory aspects of the design and interpretation of these studies are also covered. The book will be a superb reference for aquatic biologists, ecologists, toxicologists, environmental toxicologists, environmental chemists, and regulatory personnel.

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