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with easy-to-follow, easy-to-grasp explanations. TABLE OF CONTENTS
About Research & Education
Association Preface About the Test
Scoring Contacting the AP Program
AP CHEMISTRY COURSE REVIEW
CHAPTER 1 - THE STRUCTURE OF
MATTER A. ATOMIC PROPERTIES 1.
The Atomic Theory and Evidence for
the Atomic Theory 2. Chemical and
Physical Approaches to Atomic
Weight Determination 3. Atomic
Number and Mass Number, Isotopes,
Mass Spectroscopy 4. Electron
Energy Levels 5. The Periodic Table
and Periodic Relationships: Symbols,
Radii, Ionization Energy, Electron
Affinity, Oxidation States B.
BONDING 1. Types of Bonds 2.
Effects of Bonding Forces on States,
Structures, and Properties of Matter
3. Polarity and Electronegativity 4.

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Geometry of Ions, Molecules, and Coordination Complexes 5.
Molecular Models C. NUCLEAR CHEMISTRY, NUCLEAR EQUATIONS, HALF-LIVES, RADIOACTIVITY CHAPTER 2 - STATES OF MATTER A. GASES 1. Ideal Gas Laws 2. Kinetic Molecular Theory B. LIQUIDS AND SOLIDS 1. Kinetic-Molecular View of Liquids and Solids 2. Phase Diagram 3. Changes of State, Critical Phenomena 4. Structure of Crystals C. SOLUTIONS 1. Types of Solutions 2. Factors Affecting Solubility 3. Ways of Expressing Concentrations 4. Colligative Properties 5. Interionic Attractions CHAPTER 3 - REACTIONS A. TYPES 1. Forming and Cleaving Covalent Bonds 2. Precipitation 3. Oxidation and Reduction B. STOICHIOMETRY 1.

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Recognizing the Presence of Ionic and Molecular Species 2. Balancing Chemical Equations 3. Weight and Volume Relationships C.

EQUILIBRIUM 1. Dynamic Equilibrium Both Physical and Chemical 2. The Relationship Between K_p and K_c 3. Equilibrium Constants for Reactions in Solutions D. KINETICS 1. Rate of Reaction 2.

Reaction Order 3. Temperature Changes and Effect on Rate 4. Activation Energy 5. Mechanism of a Reaction E. THERMODYNAMICS 1.

State Functions 2. The First Law of Thermodynamics 3. The Second Law of Thermodynamics 4. Change in Free Energy CHAPTER 4 -

DESCRIPTIVE CHEMISTRY 1. Horizontal, Vertical, and Diagonal Relationships in the Periodic Table 2. Chemistry of the Main Groups and

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Transition Elements and
Representatives of Each 3. Organic
Chemistry 4. Structural Isomerism
PRACTICE EXAMS AP CHEMISTRY
EXAM I AP CHEMISTRY EXAM II AP
CHEMISTRY EXAM III AP
CHEMISTRY EXAM IV AP
CHEMISTRY EXAM V AP
CHEMISTRY EXAM VI FORMULAS
AND TABLES EXCERPT About
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section constitutes 55% of the final grade and the student is allowed 90 minutes for this portion of the exam. You may choose from the questions provided. These problems and essays are designed to test your ability to think clearly and to present ideas in a logical, coherent fashion. You can bring an electronic hand-held calculator for use on the 40-minute free-response section. Essay and chemical-reaction questions comprise the last 50 minutes of the test, during which calculators are not permitted. A final note about calculators: Most hand-held models are allowed in the test center; the only notable exceptions are those with typewriter-style (QWERTY) keypads. If you are unsure if your calculator is permitted, check with your teacher or Educational Testing

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Answers, Tough
Questions, Brainstorm,
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Your Work, Beware of
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Statements, Answer
Choice Families; Along
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Comprehensive content
review for all test topics •
Up-to-date information on
the 2017 AP Chemistry
Exam • Engaging
activities to help you
critically assess your
progress • Access to AP
Connect, our online
portal for helpful pre-
college information and
exam updates Practice***

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TABLE OF CONTENTS

About Research and Education Association

Independent Study Schedule

CHAPTER 1 - ABOUT THE SAT II: CHEMISTRY SUBJECT TEST

Read Free Chemistry Midterm Review Answers

About This Book About The Test
How To Use This Book Format
of the SAT II: Chemistry Scoring
the SAT II: Chemistry Score
Conversion Table Studying for
the SAT II: Chemistry Test
Taking Tips CHAPTER 2 -
COURSE REVIEW Gases Gas
Laws Gas Mixtures and Other
Physical Properties of Gases
Dalton's Law of Partial Pressures
Avogadro's Law (The Mole
Concept) Avogadro's
Hypothesis: Chemical
Compounds and Formulas Mole
Concept Molecular Weight and
Formula Weight Equivalent
Weight Chemical Composition
Stoichiometry/Weight and

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Volume Calculations Balancing
Chemical Equations Calculations
Based on Chemical Equations
Limiting-Reactant Calculations
Solids Phase Diagram Phase
Equilibrium Properties of Liquids
Density Colligative Properties of
Solutions Raoult's Law and
Vapor Pressure Osmotic
Pressure Solution Chemistry
Concentration Units Equilibrium
The Law of Mass Action Kinetics
and Equilibrium Le Chatelier's
Principle and Chemical
Equilibrium Acid-Base Equilibria
Definitions of Acids and Bases
Ionization of Water, pH
Dissociation of Weak
Electrolytes Dissociation of

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Polyprotic Acids Buffers
Hydrolysis Thermodynamics I
Bond Energies Some Commonly
Used Terms in Thermodynamics
The First Law of
Thermodynamics Enthalpy
Hess's Law of Heat Summation
Standard States Heat of
Vaporization and Heat of Fusion
Thermodynamics II Entropy The
Second Law of Thermodynamics
Standard Entropies and Free
Energies Electrochemistry
Oxidation and Reduction
Electrolytic Cells Non-Standard-
State Cell Potentials Atomic
Theory Atomic Weight Types of
Bonds Periodic Trends
Electronegativity Quantum

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Chemistry Basic Electron
Charges Components of Atomic
Structure The Wave Mechanical
Model Subshells and Electron
Configuration Double and Triple
Bonds Organic Chemistry:
Nomenclature and Structure
Alkanes Alkenes Dienes Alkynes
Alkyl Halides Cyclic
Hydrocarbons Aromatic
Hydrocarbons Aryl Halides
Ethers and Epoxides Alcohols
and Glycols Carboxylic Acids
Carboxylic Acid Derivatives
Esters Amides Arenes
Aldehydes and Ketones Amines
Phenols and Quinones Structural
Isomerism SIX PRACTICE
EXAMS "Practice Test 1 "

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Answer Key Detailed

Explanations of Answers

"Practice Test 2 " Answer Key

Detailed Explanations of

Answers "Practice Test 3"

Answer Key Detailed

Explanations of Answers

"Practice Test 4 " Answer Key

Detailed Explanations of

Answers "Practice Test 5"

Answer Key Detailed

Explanations of Answers

"Practice Test 6 " Answer Key

Detailed Explanations of

Answers THE PERIODIC TABLE

EXCERPT About Research &

Education Association Research

& Education Association (REA)

is an organization of educators,

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scientists, and engineers specializing in various academic fields. Founded in 1959 with the purpose of disseminating the most recently developed scientific information to groups in industry, government, high schools, and universities, REA has since become a successful and highly respected publisher of study aids, test preps, handbooks, and reference works. REA's Test Preparation series includes study guides for all academic levels in almost all disciplines. Research & Education Association publishes test preps for students who have not yet completed high school,

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in the books we publish. They are well-known in their respective disciplines and serve on the faculties of prestigious high schools, colleges, and universities throughout the United States and Canada.

CHAPTER 1 - ABOUT THE SAT II: CHEMISTRY SUBJECT TEST
ABOUT THIS BOOK This book provides you with an accurate and complete representation of the SAT II: Chemistry Subject Test. Inside you will find a complete course review designed to provide you with the information and strategies needed to do well on the exam, as well as six practice tests

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based on the actual exam. The practice tests contain every type of question that you can expect to appear on the SAT II:

Chemistry test. Following each test you will find an answer key with detailed explanations designed to help you master the test material. ABOUT THE TEST Who Takes the Test and What Is It Used For? Students planning to attend college take the SAT II: Chemistry Subject Test for one of two reasons: (1) Because it is an admission requirement of the college or university to which they are applying; "OR" (2) To demonstrate proficiency in Chemistry. The SAT II:

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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 requires Subject Test scores as part of the

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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,

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consult the publication Taking the 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

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academic advisor. HOW TO USE THIS BOOK What Do I Study First? Remember that the SAT II: Chemistry Subject Test is designed 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

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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 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,

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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-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

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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 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 |

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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) Factual Recall /
Demonstrating a knowledge and
understanding of important
concepts and specific

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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 eating lunch. Only you can

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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

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reviewing the 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

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your test-taking anxieties.

Become comfortable with the format of the exam. When you 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

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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 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

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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 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

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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 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

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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 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

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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, try to find a seat where you feel most comfortable. Follow all the rules and

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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

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about five weeks after you take the test. This report will include your scores, percentile ranks, and interpretive information. Cracking the AP Chemistry Exam, 2020 Edition, provides students with thorough subject reviews of all relevant topics, including atomic structure, thermodynamics, the periodic table, fundamental laws, organic chemistry, molecular binding, and key equations, laws, and formulas. It also includes helpful tables, charts, and diagrams, and detailed advice on how to write a high-scoring essay.

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Your Greatest Enemy, Guessing is Not Guesswork, Practice Smarter, Not Harder, Prepare, Don't Procrastinate, Test Yourself; A comprehensive General Strategy review including: Make Predictions, Answer the Question, Benchmark, Valid Information, Avoid Fact Traps, Milk the Question, The Trap of Familiarity, Eliminate Answers, Tough Questions, Brainstorm, Read Carefully, Face Value, Prefixes, Hedge Phrases, Switchback Words, New Information, Time Management, Contextual Clues, Don't Panic, Pace Yourself, Answer

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Selection, Check Your Work, Beware of Directly Quoted Answers, Slang, Extreme Statements, Answer Choice Families; A comprehensive review for the Professional Teaching Knowledge exam, which every candidate must demonstrate mastery on, in addition to their specific subject exam: Effective Instructional Design & Strategies, Classroom Management & Organization, Assessment, Parent Communication, Working with Diverse Students, Written Essay on School Related Issue; Along with a complete, in-depth study guide for your specific ABCTE

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Chemical equilibrium Every section includes review questions and answers. Also included in the guide are two full-length practice tests as well as a math review section and sixteen discrete laboratory exercises to prepare AP Chemistry students for the required laboratory experiments section on the exam.

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Exam

NES Chemistry Study Guide
Surviving Chemistry AP Exam

One Day at a Time

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AP Chemistry 2020 & 2021: AP
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is Not Guesswork, Practice Smarter,
Not Harder, Prepare, Don't
Procrastinate, Test Yourself; A
comprehensive General Strategy review
including: Make Predictions, Answer
the Question, Benchmark, Valid
Information, Avoid Fact Traps, Milk
the Question, The Trap of Familiarity,
Eliminate Answers, Tough Questions,
Brainstorm, Read Carefully, Face
Value, Prefixes, Hedge Phrases,
Switchback Words, New Information,
Time Management, Contextual Clues,
Don't Panic, Pace Yourself, Answer
Selection, Check Your Work, Beware of
Directly Quoted Answers, Slang,
Extreme Statements, Answer Choice
Families; Along with a complete, in-
depth study guide for your specific
CLEP exam, and much more...
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Chemistry review tool. You can focus on one knowledge area at a time to learn and fully comprehend important concepts and theories, or to simply refresh your memory. By reading these review chapters thoroughly, you will learn important chemistry concepts and the relationships between them. This will prepare you for the exam and you will increase your score. Scoring high on AP exams is important for admission to college. To achieve a high score on AP Chemistry, you need to develop skills to properly apply the science knowledge you have to solving each question. Understanding key concepts, having the ability to extract information from the provided data and distinguishing between similar answer choices is more valuable than simply memorizing terms. All the material in this book are prepared by chemistry

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instructors with years of experience in applied chemistry, as well as in academic settings. This team of experts analyzed the content of the test, released by the College Board, and designed essential review that will help you build and solidify the knowledge necessary for your success on the exam. The content was reviewed for quality and effectiveness by our science editors who possess extensive credentials, are educated in top colleges and universities and have years of teaching and editorial experience.

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About the Author Adrian Dingle is a chemistry educator and author, with 24 years of experience teaching in the United States and the United Kingdom. He is the creator of the award-winning chemistry website, www.adriandingle.sciencepages.com. The focus of Mr. Dingle's teaching career has been on preparing students for standardized tests; AP[®] and SAT[®] tests in the

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