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## KEY=MATH - CARDENAS COCHRAN

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## THE BEST TEST PREPARATION FOR THE SAT II, SUBJECT TEST

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## MATH LEVEL IC

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**Research & Education Assoc.** *Master the SAT II Math Level IC Subject Test and score higher... Our test experts show you the right way to prepare for this important college exam. REA's SAT II Math Level IC test prep covers all Math Level IC topics to appear on the actual exam including in-depth coverage of geometry, trigonometry, algebraic laws, and more. The book features 6 full-length practice SAT II Math Level IC exams. Each practice exam question is fully explained to help you better understand the subject material. Follow up your study with REA's proven test-taking strategies, powerhouse drills and study schedule that get you ready for test day.*

*DETAILS - Comprehensive review of every Math Level IC topic to appear on the SAT II subject test - Flexible study schedule tailored to your needs - Packed with proven test tips, strategies and advice to help you master the test - 6 full-length practice SAT II Math Level IC Subject tests. Each test question is answered in complete detail with easy-to-follow, easy-to-grasp explanations. TABLE OF CONTENTS About Research and Education Association Independent Study Schedule CHAPTER 1 - About the SAT II: Math Level IC Subject Test About This Book About The Test How To Use This Book Format of the SAT II: Math Level IC Scoring the SAT II: Math Level IC Studying for the SAT II: Math Level IC Test-Taking Tips CHAPTER 2 - Subject Review Algebraic Laws and Operations Polynomials Equations of Higher Degrees Plane Geometry Solid Geometry Coordinate Geometry Trigonometry Elementary Functions Miscellaneous Topics SIX PRACTICE EXAMS Practice Test 1 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 EXCERPT About Research & Education Association Research & Education Association (REA) is an organization of educators, 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, as well as high school students preparing to enter college. Students from countries around the world seeking to attend college in the United States will find the assistance they need in REA's publications. For college students seeking advanced degrees, REA publishes test preps for many major graduate school admission examinations in a wide variety of disciplines, including engineering, law, and medicine. Students at every level, in every field, with every ambition can find what they are looking for among REA's publications. While most test preparation books present practice tests that bear little resemblance to the actual exams, REA's series presents tests that accurately depict the official exams in both degree of difficulty and types of questions. REA's practice tests are always based upon the most recently administered exams, and include every type of question that can be expected on the actual exams. REA's publications and educational materials are highly regarded and continually receive an unprecedented amount of praise from professionals, instructors, librarians, parents, and students. Our authors are as diverse as the fields represented 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: MATH LEVEL IC SUBJECT TEST ABOUT THIS BOOK** This book provides you with an accurate and complete representation of the SAT II: Math Level IC 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 based on the actual exam. The practice tests contain every type of question that you can expect to appear on the SAT II: Math Level IC Subject 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: Math Level IC 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 Mathematics. The SAT II: Math Level IC exam is designed for students who have taken more than three years of college preparatory mathematics (two years of algebra and one year of geometry).

**Who Administers The Test?** The SAT II: Math Level IC 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: Math Level IC be Taken?** If you are applying to a college that requires Subject Test scores as part of the admissions process, you should take the SAT II: Math Level IC Subject Test by November or January 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. For more information, be sure to contact the colleges to which you are applying.

**When and Where is the Test Given?** The SAT II: Math Level IC Subject Test is administered five times a year at many locations throughout the country; mostly high schools. The test is given in November,

December, January, May, and June. To receive information on upcoming administrations of the exam, 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? You must pay a registration fee to take the SAT II: Math Level IC. 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. What Kind of Calculator Can I Use? Your calculator should be, at the minimum, a scientific calculator. It can be programmable or non-programmable. Bear in mind, however, that for perhaps 60 percent of the test items, the calculator will afford you no advantage and, moreover, may actually work against you. No pocket organizers, hand-held minicomputers, paper tape, or noisy calculators may be used. In addition, no calculator requiring an external power source will be allowed. Finally, no sharing of calculators will be permitted - you must bring your own. Make sure you are thoroughly familiar with the operation of your calculator before the test. Your performance on the test could suffer if you spend too much time searching for the correct function on your calculator. HOW TO USE THIS BOOK What Do I Study First? Remember that the SAT II: Math Level IC 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: Math Level IC 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 exam. Be sure to take the remaining practice tests to further test yourself and become familiar with the format of the SAT II: Math Level IC Subject Test. When Should I Start Studying? It is never too early to start studying for the SAT II: Math Level IC 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: MATH LEVEL IC The SAT II: Math Level IC is a one-hour exam consisting of 50 multiple-choice questions. Material Tested The follo

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## **SAT II MATH LEVEL IC-IIIC**

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**Schirmer Trade Books** A guide to the math part of the SAT, including seven sample exams with solutions, review of the subjects tested, and practice on all question types.

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## **HOW TO PREPARE FOR THE SAT II MATH LEVEL IC**

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**Barrons Educational Series** This brand-new manual presents three model exams with all questions answered and explained. Subject review chapters cover arithmetic,

algebra, geometry (plane, solid, and coordinate), trigonometry, functions and probability, and statistics. Test takers will also find hundreds of multiple-choice questions with answers and solutions, advice on using a calculator while taking the test, and valuable test-taking strategies.

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## HOW TO PREPARE FOR SAT II--MATHEMATICS LEVEL I IC

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**Barron's Educational Series** *This test prep manual has been revised and updated with advice on choosing and using calculators when taking the SAT II: Math Level IC. Six complete model tests plus a diagnostic test are presented with answers and explanations. Analyses of calculator-active, calculator-neutral, and calculator-inactive questions provide tips, tactics, and techniques for solving problems with and without a calculator.*

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## HOW TO PREPARE FOR SAT II--MATHEMATICS LEVEL I IC

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## HOW TO PREPARE FOR THE SAT II

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### MATHEMATICS LEVEL IC

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**Barron's Educational Series** *A preparatory guide to the SAT II Math Level IC test includes sample tests*

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## KAPLAN SAT II

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### MATHEMATICS, LEVEL I, IC, IIC, 1997

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**Kaplan** *The experts at Kaplan now share their SAT II knowledge. The full-length practice test is just like the real thing, and the exclusive diagnostic evaluation helps students learn their strengths and weaknesses. Also includes key summaries of all the math concepts needed for the tests and sets of practice questions devoted to major content areas.*

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## BARRON`S SAT II MATH LEVEL IC, 8TH EDITION

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*Model Exams Simulate the Actual SAT II Exam In length, question types, and degree of difficulty.*

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## SAT II

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### MATHEMATICS LEVELS IC AND IIC 2003-2004

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**Kaplan** *You will score higher. We guarantee it. SAT II: Mathematics Levels IC and IIC, 2003-2004 Edition comes complete with a targeted review of all the material on the*

exam, plus Kaplan's proven score-increasing strategies. This powerful combination makes SAT II: Mathematics a highly effective study guide that can help you score higher on these intensive subject tests, and enable you to approach the test with confidence. 4 full-length practice tests with complete explanations The most up-to-date information on the test Effective strategies to help you succeed on every type of question An intensive review of all the tested subjects: Algebra Coordinate Geometry Functions Trigonometry Plane Geometry Solid Geometry Test Prep, Admissions and Guidance. For life. Kaplan has helped more than 3 million students achieve their educational and career goals. With 185 centers and more than 1,200 classroom locations throughout the United States and abroad, Kaplan provides a full range of services, including test preparation courses, admissions consulting, programs for international students, professional licensing preparation, and more.

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## THE BEST TEST PREPARATION FOR THE SAT II, SUBJECT TEST

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### MATH LEVEL IC.

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### CRACKING THE SAT II

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### MATH 2001-2002

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**Princeton Review** The Princeton Review realizes that acing the SAT II: Math exam is very different from getting straight As in school. They don't try to teach students everything there is to know about math--only what they'll need to score higher on the exam. There's a big difference. In *Cracking the SAT II: Math*, The Princeton Review will teach test takers how to think like the test makers and:

- \* Eliminate answer choices that look right but are planted to fool you
- \* Score higher by reviewing some basic arithmetic concepts
- \* Earn more points by plugging in numbers on algebra problems

\*\*\* This book includes 4 full-length simulated SAT II: Math exams (two each for Math IC and Math IIC). All of the sample test questions are just like the ones test takers will see on the actual exam, and every solution is fully explained.

Contents Include: I Introduction What Are the Math Subject Tests? When Should I Take a Math Subject Test? How to Use This Book II Strategy Cracking the Math Subject Tests III Arithmetic Definitions Factors Even and Odd, Positive and Negative Doing Arithmetic Fractions, Decimals, and Percentages Averages Exponents Roots Special Exponents Repeated Percentage Change Scientific Notation Logarithms Flashcards IV Algebra Algebra on the Subject Tests Setting Up Equations Factoring and Distributing Algebraic Functions Plugging In Backsolving Inequalities Working with Ranges Direct and Indirect Variation Work and Travel Questions Simultaneous Equations FOIL Factoring Quadratics The Quadratic Formula Flashcards V Plan Geometry Plane Geometry on the Subject Tests Basic Rules of Lines and Angles Triangles Quadrilaterals Other Polygons Circles Flashcards VI Solid Geometry Solid Geometry on the Subject Tests Rectangular Solids Cubes Cylinders Cones Spheres Pyramids Tricks of the Trade Flashcards VII Coordinate Geometry Coordinate Geometry on the Subject Tests The Coordinate Plane The Equation of a Line Linear Equalities General Equations Triaxial Coordinates: Thinking 3-D Flashcards VIII Trigonometry Trigonometry on the Subject Tests The Basic Functions Trigonometric Identities

*Graphing Trigonometric Functions Trigonometry in Non-Right Triangles Flashcards IX Functions Functions on the Subject Tests The Basic Functions Compound Functions Inverse Functions Domain and Range Graphing Functions Degree of Functions Reviewing Functions Further Flashcards X Statistics and Sets Statistics on the Subject Tests Working with Statistics Probability Permutations and Combinations Group Questions Union and Intersection Flashcards XI Miscellaneous Mathematical Odds and Ends Arithmetic and Geometric Series Limits Vectors*

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## **EVALUATING SAT' II**

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### **MATHEMATICS IC ITEMS IN THE SAT I POPULATION. RESEARCH REPORT NO. 2005-3**

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*This study explored whether the addition of the items with more advanced math content to the SAT Reasoning Test" (SAT') would impact test-taker performance. Two sets of SAT math equating sections were modified to form four subforms each. Different numbers of items with advanced content, taken from the SAT II: Mathematics Level IC Test (Math IC), were embedded in the subforms. The number of Math IC items in a 25-item subform ranged from zero to six. The subforms were spiraled to obtain approximately equal numbers of examinees of roughly equal ability for all subforms. The Math IC items turned out to be more difficult than the SAT math items they replaced; therefore, there was a negative relationship between mean performance and number of Math IC items in the subforms. To examine possible indirect context effects of Math IC items, the 19 common SAT items across the subforms within a set were examined. When this was done, intersubform differences in performance disappeared. This finding supports the notion that test-taker performance is not affected by the mere presence of Math IC items. Rather, the effects of these items appear to be linked directly to the difficulty level of the items.*

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## **EQUAL EDUCATIONAL OPPORTUNITY AND NONDISCRIMINATION FOR GIRLS IN ADVANCED MATHEMATICS, SCIENCE, AND TECHNOLOGY EDUCATION**

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### **FEDERAL ENFORCEMENT OF TITLE IX : A REPORT OF THE UNITED STATES COMMISSION ON CIVIL RIGHTS**

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## **PRACTICAL GUIDE TO COLLEGE ADMISSION**

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**iUniverse** *Much material is available on the internet and in print regarding college research, admission, and matriculation. The PRACTICAL GUIDE TO COLLEGE ADMISSION, however, is the sole tool that brings all of the pieces together and arranges them in a step by step process to allow the needs of the students to be equated effectively with the characteristics of over 3000 colleges and universities. This method of research allows the candidate to restrict applications to four or five schools that are the best matches. These realistic applications will result in multiple acceptances. From these the candidate can choose to matriculate at his/her best match. This method was developed and used by the author in one of the best school districts in the United States.*

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**CHOOSING STUDENTS**

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**HIGHER EDUCATION ADMISSIONS TOOLS FOR THE 21ST CENTURY**

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**Routledge** *This volume brings a variety of perspectives to bear on the issue of how higher education institutions can - or should - choose students during the early part of the 21st century. Many of the contributors report on research to develop and validate potential tools to assist those responsible for admission decisions. Other contributors, however, pose broader questions about the nature of selective admissions, about institutional responses to the changing demography of those seeking to enter higher education, or about the appropriate criteria of 'success' in higher education. The volume is particularly timely because the question of how changes in admission tools and processes will affect campus diversity following the recent Supreme Court decision concerning the University of Michigan. Diversity is an important concern of all of the contributors and the chapter by Lee Bollinger-- President at Michigan at the time the court cases were filed--is particularly relevant. This book brings together the research that underlies a variety of proposed approaches to improving the selection of students. Providing support for the integrity of the admissions process and the validity of new tools to help a higher education institution to select a diverse student body, this book explores the implications of the assessment component of K-12 school reform for higher education admissions practices. The diverse contributions to this volume reflect the current ferment in educational research and educational practice as institutions of higher education seek to develop a new admissions paradigm for coming decades following the University of Michigan decisions. This book is intended for those leaders and professionals who set admission policies and practices in American colleges, and graduate and professional schools, as well as for those scholars and scientists who research, develop, and validate tools for use in the process of choosing students in ways that are congruent with an institution's mission, values, and goals.*

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**SAT II MATH, 1998**

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*More than 200,000 high school students take the SAT II Mathematics test each year--and Kaplan is ready to help them boost their scores. Used in placement and admissions decisions by many colleges, the results of the SAT II allow some students who get high scores to bypass introductory Mathematics courses--saving valuable time and money. Diagrams.*

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**ENACTING INSTRUCTIONAL CONVERSATION WITH SPANISH-SPEAKING STUDENTS IN MIDDLE MATHEMATICS**

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**HOW TO PREPARE FOR THE SAT II SPANISH**

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**RETHINKING THE SAT**

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**THE FUTURE OF STANDARDIZED TESTING IN UNIVERSITY ADMISSIONS**

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**Routledge** *Rethinking the SAT is a unique presentation of the latest thoughts and*

research findings of key individuals in the world of college admissions, including the president of the largest public university system in the U.S., as well as the presidents of the two companies that sponsor college admissions tests in the U.S. The contributors address not only the pros and cons of the SAT itself, but the broader question of who should go to college in the twenty-first century.

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## **2010-2011 COLLEGE ADMISSIONS DATA SOURCEBOOK WEST EDITION**

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**Wintergreen Orchard House**

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### **CRACKING THE SAT II**

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#### **MATH, 2003-2004**

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**Princeton Review** *The Princeton Review realizes that acing the SAT II: Math Subject Tests is very different from getting straight A's in school. We don't try to teach you everything there is to know about math—only what you'll need to score higher on the test. There's a big difference. In Cracking the SAT II: Math, we'll teach you how to think like the test writers and* ·Eliminate answer choices that look right but are planted to fool you ·Score higher by reviewing some basic math concepts ·Earn more points by Plugging In and Ballparking ·Learn advanced techniques for tackling the more complicated problems on the IIC test *This book includes four full-length practice SAT II: Math Subject Tests (two for each level). The practice questions are just like the ones you'll see on the actual exam, and we fully explain every solution.*

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### **THE DANGER IN OVEREMPHASIZING THE USE OF SCHOLASTIC ASSESSMENT TESTS (SAT) AS A TOOL FOR COLLEGE ADMISSIONS**

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**DIANE Publishing** *Information on court decisions & professional guidelines concerning standardized test score misuse. Witnesses: Federal Government Speaks Out: Jay Rosner, Dir., Princeton Review Foundation; TV Race Initiative ÓSecrets of the SAT, Ó Frontline, PBS Documentary: Sharon Tiller, Exec. Producer, PBS Frontline, & Bob Laird, Dir. of Undergrad. Admissions & Relations with Schools, Univ. of CA, Berkeley; Undergrad. Admissions: Charles Ratliff, CA Postsecondary Ed. Comm., & Michael Beseda, St. Mary's College; Raising Educational Achievement: Raymond Orbach, Univ. of CA, Riverside; & Academic Preparation: Mark Rosenbaum, American Civil Liberties Union.*

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## **2012-2013 COLLEGE ADMISSIONS DATA SOURCEBOOK SOUTHEAST EDITION**

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**Wintergreen Orchard House**

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### **SAT II**

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#### **SPANISH READING TEST - THE BEST TEST PREPARATION FOR THE SCHOLASTIC ASSESSMENT TEST II**

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**Research & Education Assoc.** *Taking the Spanish SAT Subject Test™? Score Higher with REA's Test Prep for SAT Subject Test™: Spanish Our bestselling SAT*

*Subject Test™*: Spanish test prep includes a comprehensive review of declensions, verb tenses, passive voice, word order, and more. Each chapter contains examples and practice questions that help you study smarter and boost your test score. The book includes 6 full-length practice tests that replicate the exam's question format. Each practice test comes with detailed explanations of answers to identify your strengths and weaknesses. We don't just say which answers are right - we also explain why the other answer choices are incorrect - so you'll be prepared. The book also includes study tips, strategies, and confidence-boosting advice you need for test day. This test prep is a must for any high school student taking the Spanish SAT Subject Test™!

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## **THE BEST TEST PREPARATION FOR THE COLLEGE BOARD ACHIEVEMENT TEST IN CHEMISTRY**

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**Research & Education Assoc.** Master the SAT II Chemistry Subject Test and score higher... Our test experts show you the right way to prepare for this important college exam. REA's SAT II Chemistry test prep covers all chemistry topics to appear on the actual exam including in-depth coverage of the laws of chemistry, properties of solids, gases and liquids, chemical reactions, and more. The book features 6 full-length practice SAT II Chemistry exams. Each practice exam question is fully explained to help you better understand the subject material. Use the book's Periodic Table of Elements for speedy look-up of the properties of each element. Follow up your study with REA's proven test-taking strategies, powerhouse drills and study schedule that get you ready for test day. **DETAILS** - Comprehensive review of every chemistry topic to appear on the SAT II subject test - Flexible study schedule tailored to your needs - Packed with proven test tips, strategies and advice to help you master the test - 6 full-length practice SAT II Chemistry Subject tests. Each test question is answered in complete detail with easy-to-follow, easy-to-grasp explanations. - The book's handy Periodic Table of Elements allows for quick answers on the elements appearing on the exam

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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 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 " 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, 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, as well as high school students preparing to enter college. Students from countries around the world seeking to attend college in the United States will find the assistance they need in REA's publications. For college students seeking advanced degrees, REA publishes test preps for many major graduate school admission examinations in a wide variety of disciplines, including engineering, law, and medicine. Students at every level, in every field, with every ambition can find what they are looking for among REA's publications. While most test preparation books present practice tests that bear little resemblance to the actual exams, REA's series presents tests that accurately depict the official exams in both degree of difficulty and types of questions. REA's practice tests are always based upon the most recently administered exams, and include every type of question that can be expected on the actual exams. REA's publications and educational materials are highly regarded and continually receive an unprecedented amount of praise from professionals, instructors, librarians, parents, and students. Our authors are as diverse as the fields represented 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 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.

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

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**SAT II**


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**SAT II**


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