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tactics to help you work
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Essential concepts, terms,
and functions for AP
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charts, and graphs for quick
visual reference • A three-

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pass icon system designed to help you prioritize learning what you MUST, SHOULD, and COULD know in the time you have available • "Ask Yourself" questions to help identify areas where you might need extra attention •

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drills and study schedule
that get you ready for test
day. DETAILS - Comprehensive
review of every chemistry

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topic to appear on the SAT
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your needs - Packed with
proven test tips, strategies
and advice to help you
master the test - 6 full-
length practice SAT II

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Chemistry Subject tests.
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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

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appearing on the exam TABLE
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and Education Association
Independent Study Schedule
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II: CHEMISTRY SUBJECT TEST
About This Book About The
Test How To Use This Book

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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

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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

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Weight Equivalent Weight
Chemical Composition
Stoichiometry/Weight and
Volume Calculations
Balancing Chemical Equations
Calculations Based on
Chemical Equations Limiting-
Reactant Calculations Solids

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Phase Diagram Phase
Equilibrium Properties of
Liquids Density Colligative
Properties of Solutions
Raoult's Law and Vapor
Pressure Osmotic Pressure
Solution Chemistry
Concentration Units

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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

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Weak Electrolytes

Dissociation of 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

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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

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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

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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

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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

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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

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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

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Answers THE PERIODIC TABLE
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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

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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.

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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

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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

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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

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the 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

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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

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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

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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

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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

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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

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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

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Princeton, NJ 08541-6200

Phone: (609) 771-7600

Website: [http:](http://www.collegeboard.com)

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There a Registration Fee?

Yes. There is a registration
fee to take the SAT II:

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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,

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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.

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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

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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

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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

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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

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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

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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

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(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

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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

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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 &

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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

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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

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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

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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

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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

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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

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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

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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

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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

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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

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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

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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

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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:

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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

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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 -

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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

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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

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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

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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

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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

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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

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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.,

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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

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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

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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

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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

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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

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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

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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

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test. This report will include your scores, percentile ranks, and interpretive information.

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Questions & Review

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Questions

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Chemistry Matter and Change

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TO HELP SCORE A
PERFECT 5. Equip
yourself to ace the AP
Chemistry Exam with this**

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thorough content
reviews, targeted
strategies for every
section, and access to**

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and beat the test - Tips
for pacing yourself and
guessing logically -**

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harder Everything You
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Fully aligned with the
latest College Board**

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Engaging activities to
help you critically assess
your progress - Access to**

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practice tests (3 in the book, 1 online) with detailed answer explanations - Practice drills at the end of each content chapter - Review of important laboratory

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Educators Learn from**

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AP experts Build your
understanding with
comprehensive review
tailored to the most
recent exam Get a leg up**

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study advice for exam
day--it's like having a
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knowledge with in-depth
review covering all Units
on the AP Chemistry
Exam Reinforce your**

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questions at the end of
each chapter Interactive
Online Practice Continue
your practice with 3 full-
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test option Deepen your
understanding with
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questions and answers.
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**formulas, concepts, and
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Introduction, Matter,
Atoms, Formulas, Moles,
Reactions, Elements,
Periodic Table, Electrons,
Chemical Bonds, Heat,**

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Solutions, Reaction
Rates, Equilibrium, Acids
and Bases, Oxidation and
Reduction, Introduction
to Organic Chemistry,
Radioactivity =====**

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450 questions and
answers. Essential**

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**definitions, formulas,
concepts, and sample
problems. Topics: Sets,
Variables, Exponents,
Properties of Numbers,
Like Terms, Simple
Equations, Property of**

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Equations, Verbal
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Polynomials, Algebraic
Fractions, Equations with**

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Proportion, Variation,
Quadratic Equations and**

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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.adriandingleschemistrypages.com.

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The focus of Mr. Dingle ' s teaching career has been on preparing students for standardized tests; AP® and SAT® tests in the United States, GCSE ' s and A levels in the United Kingdom, and International Baccalaureate in both countries. An Englishman, he lives in Atlanta, Georgia, where he teaches at

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The Westminster Schools. He holds a B.Sc. (Hons.) Chemistry, and a Postgraduate Certificate in Education, both from the University of Exeter in England. In addition to writing this Crash Course, Mr. Dingle has written The Periodic Table: Elements With Style, How To Make A Universe With

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