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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 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 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 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 preface this book provides an accurate and complete representation of the advanced placement examination in chemistry our six practice exams are based on the most recently administered advanced placement chemistry

exams each exam is three hours in length and includes every type of question that can be expected on the actual exam following each exam is an answer key complete with detailed explanations designed to clarify and contextualize the material by completing all six exams and studying the explanations which follow you can discover your strengths and weaknesses and thereby become well prepared for the actual exam the formulas and tables for the ap chemistry exam can be found at the back of this book beginning on page 417 you will be provided these formulas and tables when you take the actual exam you should also use this material when taking the practice tests in this book about the test the advanced placement chemistry examination is offered each may at participating schools and multi school centers throughout the world the advanced placement program is designed to allow high school students to pursue college level studies while attending high school the participating colleges in turn grant credit and or advanced placement to students who do well on the examinations the advanced placement chemistry course is designed to be the equivalent of a college introductory chemistry course often taken by chemistry majors in their first year of college since the test covers a broad range of topics no student is expected to answer all of the questions correctly the exam is divided into two sections 1 multiple choice composed of 75 multiple choice questions designed to test your ability to recall and understand a broad range of chemical concepts and calculations this section constitutes 45 of the final grade and you are allowed 90 minutes for this portion of the exam calculators are not permitted for this section of the exam 2 free response section composed of several comprehensive problems and essay topics this 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 service scoring the multiple choice section of the exam is scored by crediting each correct answer with one point and deducting only partial credit one fourth of a point for each incorrect answer omitted questions receive neither a credit nor a deduction the essay section is scored by a group of more than 1 000 college and high school educators familiar with the ap program these graders evaluate the accuracy and coherence of the essays accordingly the grades given for the essays are combined with the results of the multiple choice section and the total raw score is then converted to the program s five point scale 5 extremely well qualified 4 well qualified 3 qualified 2 possibly qualified get ready for your ap chemistry exam with 500 ap chemistry questions updated for all the latest exam changes we want you to

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both in the book and online this test gives you the most complete picture of your strengths and weaknesses we strongly recommend that you take the online version of the exam for the added benefits of timed testing automatic scoring and a detailed score report improving your score e flashcards with your score reports from the quizzes and tests you'll be able to see exactly which ap r chemistry topics you need to review use this information to create your own flashcards for the areas where you are weak and because you will create these flashcards through the rea study center you'll be able to access them from any computer or smartphone not quite sure what to put on your flashcards start with the 100 free cards included when you buy this book this complete test prep package comes with a customized study schedule and expert test taking strategies and tips a guide to taking the advanced placement exam in chemistry featuring a review of major chemistry concepts practice and diagnostic tests test taking strategies an overview of the test and practice problems rea the test prep ap teachers recommend rea s crash course for the ap chemistry exam gets you a higher advanced placement score in less time completely revised for the new 2014 exam crash course is perfect for the time crunched student the last minute studier or anyone who wants a refresher on the subject are you crunched for time have you started studying for your advanced placement chemistry exam yet how will you memorize everything you need to know before the test do you wish there was a fast and easy way to study for the exam and boost your score if this sounds like you don't panic rea s crash course for ap chemistry is just what you need our crash course gives you targeted focused review study only what you need to know fully revised for the 2014 ap chemistry exam this crash course is based on an in depth analysis of the revised ap chemistry course description outline and sample ap test questions it covers only the information tested on the new exam so you can make the most of your valuable study time our targeted review focuses on the big ideas that will be covered on the exam explanations of the ap chemistry labs are also included expert test taking strategies this crash course presents detailed question level strategies for answering both the multiple choice and essay questions by following this advice you can boost your score in every section of the test take rea s online practice exam after studying the material in the crash course go to the online rea study center and test what you've learned our practice exam features timed testing detailed explanations of answers and automatic scoring analysis the exam is balanced to include every topic and type of question found on the actual ap exam so you know you're studying the smart way whether you're cramming for the test at the last minute looking for extra review or want to study on your own in preparation for the exams this is the study guide every ap chemistry student must have when it's crucial crunch time and your advanced placement exam is just around the corner you need rea s crash course for ap chemistry looking for sample exams practice questions and test taking strategies check out our extended in depth ap chem prep guide cracking the ap chemistry exam like class notes only better the princeton review s asap chemistry is designed to help you zero in on

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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 92 ingredients and sat chemistry crash course he is the 2011 winner of the school library association of the uk s information book award and in 2012 was honored with the prestigious literary prize wissenschaftsbuch des jahre sponsored by the austrian ministry of science and research a perfect plan for the perfect score score raising features include 4 full length practice exams with thorough answer explanations 2 in the book 2 on cross platform hundreds of practice exercises with thorough answer explanations comprehensive overview of the ap chemistry exam format practice questions that reflect multiple choice experiment based and free response question types just like the ones you will see on test day proven strategies specific to each section of the test bonus cross platform prep course for extra practice exams with personalized study plans interactive tests powerful analytics and progress charts flashcards games and more see inside front and back covers for details 5 minutes to a 5 section 180 questions and activities that give you an extra 5 minutes of review for every day of the school year reinforcing the most vital course material and building the skills and confidence you need to succeed on the ap exam the 5 step plan step 1 set up your study plan with three model schedules step 2 determine your readiness with an ap style diagnostic exam step 3 develop the strategies that will give you the edge on test day step 4 review the terms and concepts you need to achieve your highest score step 5 build your confidence with full length practice exams gearing up for the ap chemistry exam ap chemistry for dummies is packed with all the resources and help you need to do your very best this ap chemistry study guide gives you winning test taking tips multiple choice strategies and topic guidelines as well as great advice on optimizing your study time and hitting the top of your game on test day this user friendly guide helps you prepare without perspiration by developing a pre test plan organizing your study time and getting the most out of your ap course you ll get help understanding atomic structure and bonding grasping atomic geometry understanding how colliding particles produce states and much more two full length practice exams help you build your confidence get comfortable with test formats identify your strengths and weaknesses and focus your studies discover how to create and follow a pretest plan understand everything you must know about the exam develop a multiple choice strategy figure out displacement combustion and acid base reactions get familiar with stoichiometry describe patterns and predict properties get a handle on organic chemistry nomenclature know your way around laboratory concepts tasks equipment and safety analyze laboratory data use practice exams to maximize your score ap chemistry for dummies gives you the support confidence and test taking know how you need to demonstrate your ability when it matters most your complete guide to a higher score on the ap chemistry exam why cliffsap guides go with the name you know and trust get the information you need fast written by test prep

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