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Studying for the AP Chemistry exam is a challenging undertaking. There are so many different topics and types of problems that you're expected to master, some of which you might not have fully understood in your class. 2021 AP Test Changes Due to COVID-19 Due to the ongoing COVID-19 coronavirus pandemic, AP tests will now be held over three different sessions between May and June. Your test dates, and whether or not your tests will be online or on paper, will depend on your school. To learn more about how all of this is going to work and get the latest information on test dates, AP online review, and what these changes means for you, be sure to check out our 2021 AP COVID-19 FAQ article. This AP Chemistry study guide is written to help you effectively navigate the road towards the AP exam. I'll give you all the information and resources you need to create a study plan, review the content, and practice your skills. What's the Purpose of This AP Chemistry Study Guide? This guide will aid you in preparation for the AP Chemistry exam and any other assessments you encounter in your class. The first section outlines a study plan that will help you review the material effectively before the test. You can also use this plan as general advice for the best way to use practice tests in the context of your studying throughout the year. The next section lists study tips that specifically apply to AP Chemistry. It's nice to have some strategies in hand before you begin prepping so that you get the most out of your time with the material! The section after this deals with the content of the course, divided into AP Chemistry's main units. I'll link to notes that provide information detailing each of the content areas and give you some supplemental videos that may help with explanations. Finally, I'll provide online resources that you can use to test your knowledge of AP Chemistry, including practice multiple-choice quizzes by topic area and sample free-response questions. Alright, let's do this. AP Chemistry Study Plans AP Chemistry has many different components: data interpretation, math problems, concept memorization, logical reasoning. Where do you start? I'll describe the basic study process step-by-step first and then provide an approximate timeline. Step 1: Take and Score an Initial Diagnostic Test Practice tests are available online, through your AP teacher, or in review books. Take your diagnostic test under the same time constraints as the real exam (1 hour 30 minutes for multiple choice and 1 hour 45 minutes for free response). You should aim to take your first full-length practice test around the beginning of your second semester. Side Note: Even though they can be useful, you should always be wary of practice tests from review books. Whenever possible, try to use official tests from the College Board to judge your score level instead of tests that were written by prep companies. Unofficial tests are often significantly easier or harder than the real AP test. Step 2: Evaluate Your Results When you're done, go back through your answers and score the test. Keep track of which types of questions you answered incorrectly (or answered correctly because of a lucky guess). This will allow you to collect a repository of concepts that you need to work on before taking the real test. Step 3: Study Weak Content Areas and Do Practice Problems Refer to your notes, review book, or information included later in this guide to refresh your knowledge of ideas that you had trouble with on the practice test. If you're struggling with a particular type of problem, find a similar problem in your textbook, review book, or online, and walk yourself through the steps of solving it. First, just read the solution explanation. Then, try to do it yourself without looking at the explanation and see if you can find the right answer. If you go through a few problems or questions like this in areas that need work, you will start to build up comfort with the material. Step 4: Take and Score a Second Practice Test When you feel you've addressed the main issues you noticed on the first diagnostic test, you can take another practice test to measure your improvement. Overview of the Entire Process: Take and score a practice test (3.5-4 hours) Analyze and categorize your mistakes (1-2 hours) Do practice problems and study content that correspond to your areas of weakness on the test (2-3 hours) Take and score a second practice test (3.5-4 hours) After the second practice test, check your progress. If you're satisfied, you can stop here at nine to 13 hours of studying, but I'd say that's the minimum study time for this test. Assuming you still want to improve or get more comfortable with the format of the exam, you can repeat the cycle as many times as necessary to reach your goals. Oh boy, a study plan that never has to end! AP Chemistry Study Strategies Before we get to notes on content, here are some study tips that you should keep in mind as you review. In a subject like chemistry, there's a huge difference between looking over the material and actually learning it. #1: Start With the Basics AP Chemistry is a subject that builds on itself from the ground up. If you don't understand the essential reasoning behind the properties of different elements, you'll have trouble answering more obscure problems down the road. For this reason, your studying should begin with the topics that were covered earliest in the year. If there's a concept you learned early on that's still giving you trouble, you should revisit it right away to solidify your understanding. If you don't absorb foundational knowledge before solving complex problems, you'll end up wasting your time and getting more confused (or memorizing how to solve a specific problem without expanding your understanding of the concept). #2: Do It Yourself When studying a subject that requires step-by-step problem solving, students often read answer explanations and overestimate their levels of understanding. Everything seems so clear when you're reading about it, but you'll feel different during the AP test when all you have is the problem in front of you. That's why it's critical to re-do problems yourself after looking at the answer explanations. Learning by doing is the only way to go with chemistry. If you can find the solution on your own while genuinely understanding how you got there, you'll do well on similar problems when they come up in the future. #3: Double Check for Logic and Units When you finish a chemistry problem, you might be tempted to accept the answer you calculated right away and continue to the next question. Before you do, check to make sure that your answer matches up with what you know about the problem and its scale. Many issues with units and significant figures can happen in chemistry, so you should double check to verify that your answer is in the correct form and makes logical sense. #4: Invest in a Review Book If you have the means, I'd highly recommend buying a review book to supplement independent studying. Review books can provide you with more concise explanations of concepts and better ideas for how to structure your time. They also have practice tests and questions that you can consult as you review different parts of the curriculum. Check out our article on the best AP Chemistry review books for more specific ideas. It's time to break open your piggy bank (if only so it doesn't break you open first based on its incredibly disturbing facial expression). AP Chemistry Content First, I have for you a super sweet interactive periodic table! The periodic table is your best friend in AP Chemistry, and you'll have access to it on the test. You should know all about the different types of elements and what the numbers in the table mean! This other site is also useful for sorting the elements according to their various unique properties. Here are links to some notes for the main topics that fall under each of the nine units of the course. The units represent nine fundamental themes of AP Chemistry under the newly-organized curriculum. These resources should help you to review key concepts if you find that you're missing sections in your notes from class. Note that, because AP Chemistry's curricula was recently updated in 2019, most online notes haven't been updated yet, which is why some topics don't have corresponding notes and some notes cover multiple topics. Unit 1: Atomic Structure and Properties Unit 2: Molecular and Ionic Compound Structure and Properties Unit 3: Intermolecular Forces and Properties Looking for help studying for your AP exam? Our one-on-one online AP tutoring services can help you prepare for your AP exams. Get matched with a top tutor who got a high score on the exam you're studying for! Unit 4: Chemical Reactions Unit 5: Kinetics Unit 6: Thermodynamics Unit 7: Equilibrium Unit 8: Acids and Bases Unit 9: Applications of Thermodynamics This is how jazzed up you'll be while you're studying. Online Practice Resources This is a list of free online resources that have practice tests and problems that may aid in your studying. If you need more practice, you should also consider buying a review book or asking your AP teacher for additional official practice tests. College Board The College Board has free-response questions (along with scoring guidelines) from past tests (2006 to 2013) on its site for AP Chemistry. You can also find free-response questions from 2014 to 2018 and 2019 on the AP Student section of the College Board website. All of these are great for practice! ChemistryGeek I like this site because it's not all multiple choice. You have to solve problems completely on your own, which awesome practice for the AP test. There are tons of different activities that relate to all aspects of the course, and you can check your answers as you find them. This is a helpful resource for practice problems that will allow you to develop a strong fundamental understanding of the concepts. Albert IO Albert has sets of practice questions organized by concept. Each question is labeled Easy, Medium, or Hard, so you'll know whether you've mastered the material. (You need to pay to access some materials.) The site also records your progress and the accuracy of your answers in each topic area to make it easier to identify where your skills still need work. All questions are multiple choice, so make sure you also practice open-ended questions elsewhere (or do some of the problems without looking at the answer choices). Varsity Tutors This site has a bunch of practice tests on all topics related to AP Chemistry. Each test has a difficulty rating along with a listing of the average amount of time required to complete the questions. These tests are multiple choice, but there are plenty that will ask you to solve stoichiometry problems or balance equations. Just like Albert IO, once you're well-versed in the material, you can try to do the problems without looking at the answer choices. Adrian Dingle's Chemistry Pages This is a resource that offers short multiple choice quizzes on all topics in AP chemistry. The quizzes are only five questions long each, so they're good for quick review of concepts that you already know fairly well. Conclusion AP Chemistry is tough. It covers so much information, and most of it is complex and challenging to understand. Take a diagnostic test before you start studying so you can devise a plan that fits your needs, whether that means studying for 10 hours or 40 hours. I'd recommend that you use the study strategies and supplemental resources in this guide to bolster your understanding of the material. If you're willing to work hard to master every topic in AP Chemistry, the test will be a much less stressful experience! What's Next? If you're still planning out your future high school schedule, take a look at this guide that will help you decide which AP classes to take in addition to chemistry. How high does your AP score have to be to qualify for college credit? Learn more about getting credit for AP classes in college. One of the single most important parts of your college application is what classes you choose to take in high school (in conjunction with how well you do in those classes). Our team of PrepScholar admissions experts have compiled their knowledge into this single guide to planning out your high school course schedule. We'll advise you on how to balance your schedule between regular and honors/AP/IB courses, how to choose your extracurriculars, and what classes you can't afford not to take. Borax, a popular addition to laundry detergents and slime recipes, is a natural ingredient that has been getting flack for possibly being harmful to children. But is this true?By Alia HoytIf you've ever had a half-frozen beer explode on you, you know that yes, alcohol freezes — but not all types freeze at the same rate. We'll let you in on the secrets to frozen alcoholic delights.By Alison Cooper Every day, we see concrete used all around us — to build our houses, offices, schools, bridges, and infrastructure. But few people actually understand what gives concrete its strength, resistance, and utility. The aim of this course is to offer basic cement chemistry to practitioners, as well as new students in the fields of chemistry and engineering. You will learn how cement is made and hydrated, as well as the environmental and economical benefits it offers. You'll learn to test your samples in isocalorimetry in order to track the hydration and to prepare and observe samples by scanning electron microscopy. In the last two weeks of the course, you will also learn how X-ray diffraction works and how to apply it to cements. Because the course is designed for beginning students, it's not necessary to have a cement background, however a bachelor degree in Materials Science or knowledge in chemistry, physics and crystallography will help. This course starts with basics of cement, and progressively covers the latest advances in the understanding of cement hydration. This course lasts 6 weeks, during which you can take theoretical courses and tutorials to test the cement in the laboratory. Understanding of the hydration of cement The science and utility behind Supplementary Cementitious Materials in concrete technology Best practices (via tutorials) for testing samples through X-Rays diffractometry, Scanning Electronic Microscopy and Isothermal calorimetry Week 1: Research context on sustainable cementitious materials Set up the context of sustainability in the research about cementitious materials Week 2: Hydration of cement Introduction to cement chemistry and hydration mechanism Week 3: SEM-EDX How to use SEM-EDX to characterize cement. Learn the best practices and LMC tips. Week 4: Cement and kinetics Go deeper in cement hydration and kinetics of the reaction. Learn how to use isocalorimetry to follow the reaction: best practices and LMC tips. Week 5: XRD 1 Learn the basics on XRD and how to prepare samples for XRD Week 6: XRD 2 Apply XRD to cementitious materials and go deeper on analyzing the XRD results.Receive an instructor-signed certificate with the institution's logo to verify your achievement and increase your job prospectsAdd the certificate to your CV or resume, or post it directly on LinkedInGive yourself an additional incentive to complete the courseeDX, a non-profit, relies on verified certificates to help fund free education for everyone globally

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