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Practice ap chemistry test

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You may do so in any reasonable manner, but not in any way that suggests the licensor endorses you or your use. ShareAlike — If you remix, transform, or build upon the material, you must distribute your contributions under the same license as the original. No additional restrictions — You may not apply legal terms or technological measures that legally restrict others from doing anything the license permits. You do not have to comply with the license for elements of the material in the public domain or where your use is permitted by an applicable exception or limitation . No warranties are given. The license may not give you all of the permissions necessary for your intended use. For example, other rights such as publicity, privacy, or moral rights may limit how you use the material. What's the best way to study for AP Chemistry? Practice, practice, practice. This article will provide you with links to every practice test and quiz for AP Chemistry that's available online, including full official and unofficial tests, shorter quizzes that cover each topic area, and other prep services you can access with a subscription! Official AP Chemistry Practice Exams Official exams are the best practice materials because they help you make accurate predictions of your performance on the real test. They will also get you used to the test format so that you're not caught off guard by the structure of the final exam. I'd recommend starting with the unofficial practice materials listed later on in this article and then using official tests in the final stages of your studying. That way you'll be in the best position to estimate your ultimate AP score, and you won't squander limited resources. Old Official Released Exams: These official exams come from before 2013 (when significant changes were made to the AP Chemistry curriculum), so they're formatted slightly differently from the current test. They have 75 multiple-choice questions (there are now 60) and six free-response questions (there are now seven). There are also five answer choices for each multiple-choice question, whereas now there are only four. The old AP Chemistry exam emphasized calculations and factual knowledge over a strong understanding of fundamental concepts and mastery of scientific practices. The questions on these tests will still help you practice your skills; just make sure you also use more recent materials for an accurate preview of what to expect on test day. Note that the College Board doesn't have an official link to the 2008 exam anymore, but if you were to search for it on the internet, you may find it (just saying). Current AP Chemistry Course and Exam Description (multiple choice practice included) Go to page 209 of this course description to review sample multiple-choice and free-response questions for the current exam. This is not a full practice test (it only has 15 multiple-choice questions and two free-response questions total), but it's directly from the College Board, so it's the most accurate and up-to-date representation of the format and content of the test. Free-Response Questions 2014-2024 These free response questions are from the most up-to-date version of the test. I would advise you to save most of them for later on in the year when you're more serious about practicing for the real AP exam. There are seven questions from each year. Practice Tests from Your Teacher Since there aren't any full AP Chemistry practice tests available online that reflect the current format of the exam (well, any that we can legally link to in this blog post), you can also ask your teacher for additional practice materials. AP teachers often have access to extra practice tests from the College Board that are available for classroom use. Oh, you need more practice tests? Maybe you should have thought of that before you interrupted all of my lectures with unnecessary questions about when I'm planning on "breaking bad." I don't even watch that show, Eric. You are a nightmare. Unofficial Free AP Chemistry Practice Exams There are also a bunch of unofficial resources for AP Chemistry practice questions on various online learning platforms and independent sites. Few of these offer complete tests in the same format as the real exam, but they do provide a large repository of practice questions (mainly multiple-choice). These are great if you're looking for questions in specific topic areas or are studying early on in the year and want to avoid certain concepts that you haven't learned in class yet. Just be wary of using these resources too much in your studying, and make sure you supplement them with official College Board materials at regular intervals. Unofficial practice questions often lack many of the nuances of real test questions. In a lot of cases, they will test straightforward factual recall whereas on the real test you'll have to do more complex analyses of unfamiliar experimental scenarios. Varsity Tutors Diagnostic Tests There are six diagnostic tests here with 50-60 questions each at varying difficulty levels. You'll also be timed as you take the tests so you can get a better sense of your pacing. Questions are multiple-choice only, so this won't give you any free-response practice. There are also tons of practice quizzes divided by topic, so you can use a nose to tackle tricky subject areas. We'd also recommend trying out their AP Chemistry practice app (it's free). Albert Quizzes This site includes quizzes for each concept broken down according to the major units of the course. This site will track your progress and tell you what percentage of questions you got right from each difficulty level (questions are organized into easy, medium, and hard categories). You can also access additional questions, including free-response, if you pay \$25 to set up an account. ScienceGeek Here you'll find tons of review questions and activities, with lengthy practice quizzes for each unit of the course. This is one of the few resources that has non-multiple-choice questions that you can check automatically online. Crack AP This website offers 46 different multiple-choice practice tests (each is less than the actual exam), and lots more downloadable practice questions organized by topic. You'll be able to see whether or not you've answered correctly, as well as explanations of each question and answer. PracticeQuiz This quiz includes 58 free AP Chemistry practice multiple-choice questions. ChemmyBear There's a lot of stuff here, but if you're just looking for practice tests, you can find them at the end of the list of resources for each unit. There are multiple-choice and free-response tests for most units with accompanying answer keys. Chemmy bear? Actually, there is some interesting chemistry behind how gummy candies are made. Unofficial Paid/Subscription AP Chemistry Practice Exams Here are some additional resources that will cost you some money, but they might be worth it because they provide full properly-formatted AP Chemistry practice tests. Peterson's (\$39-\$49 per month) Two full-length practice tests (up to date format and content) Answer explanations Automatically tells you what you still need to study based on your results Also includes test prep for other AP exams Sterling Test Prep (price varies) On this site, you can buy individual practice tests for each topic in AP Chemistry. All of them together cost almost \$100, so that might not be feasible, but you can get each specialized practice test for about \$3 each (most have around 60 questions). You can also just get the Sterling book of practice questions, which many students seem to find helpful. Review Books (price varies) Review books can be great resources because many of them include instructions for how to structure your studying in addition to focused content overviews. For AP Chemistry, we recommend the 5 Steps to a 5 and Crash Course books. You can click on the link in the title of this section to read my full article on the best review books for this course. Barron's AP Chemistry, and the Princeton Review AP Chemistry Prep book are also excellent resources. In addition, each of these includes several different practice tests you can use to help you be prepared for test day! You can also get review books as e-books on your Kindle or whatever, but that's much harder to represent visually. Do you guys even know what you're looking at here? Do people under the age of 20 still read physical books? How to Use AP Chemistry Practice Tests Practice tests are great study tools for AP tests, and they're especially helpful for a subject like Chemistry that involves a lot of calculations and experimental analysis. In the next couple of subsections, we'll tell you how to use practice tests throughout the school year to prepare for the AP Chemistry exam. First Semester: Using Practice Tests for Your Class It's not practical to take full practice tests during the first semester of AP Chemistry because you haven't covered enough of the course material yet. Focus on official free-response questions and unofficial topic-specific practice tests that address aspects of the curriculum that you've learned already. It's a great idea to start early and do consistent reviews so that your knowledge base remains strong throughout the year. Since chemistry is a subject that builds on the fundamental concepts learned in the first few months of class, it's vital that those early lessons are solidified in your memory. This way, more complex material that you learn in the second semester won't fly over your head. You can also consider getting a prep book; most of them have practice questions organized by chapter for selective review of different concepts. Second Semester: Preparing for the AP Test During your second semester, you can start to take full practice tests to predict your AP score-range. At this point, you've learned most of the material that will be covered in the class, so your scores should accurately reflect your abilities. Even time you take a full practice test, keep track of the areas where you need more practice. As we mentioned at the beginning of this article, we would recommend saving the most up-to-date official practice materials for later in the semester so that the format of the current test stays fresh in your mind. As you take each test, circle any questions where you were unsure about your answer. Even if your choice ends up being correct, you should still plan to go over these concepts, so you don't feel shaky about them on the real AP test. After you've finished taking the test (with realistic time constraints!), categorize your mistakes by topic area, and use their distribution to inform the rest of your studying. The purpose of taking practice tests is to diagnose your weaknesses so you can address them as efficiently as possible. DON'T go from one test to the next without taking a deeper look at what went wrong! You'll end up wasting your time, and your second practice test is unlikely to demonstrate much improvement. Spend at least a couple of hours after each practice test doing practice problems and reviewing concepts that you didn't quite understand when they came up on the test. When you feel satisfied that you have a better handle on the background information and solution methods, you can take a second practice test to see how much you've improved. The process as a whole should work like this: Take and score first practice test (4 hours) Evaluate mistakes (1.5 hours) Practice problems and study content to improve weak areas (2.5 hours) Take and score second practice test (4 hours) Reevaluate your progress and repeat steps if necessary! One cycle through all of these steps will take around 8-10 hours, but you can repeat the steps ad infinitum until you're satisfied with your scores. If you find that you're not improving between practice tests, you'll need to reevaluate your study strategy. To master a complex subject like chemistry, you need to have a strong grasp of the fundamental concepts. Then, you can build on that understanding for more difficult problems. Be sure to do lots of practice problems where you're required to justify your answers! The smug dude on top is you after studying with these practice tests! Just mentally replace the 1 with a 5 so that your smugness makes sense on the AP scale. Conclusion Practice tests are essential study tools, especially for AP Chemistry. Doing practice problems that align with the format and content of the real exam will help you to gain familiarity with the material and feel less stressed on test day. Try to start your studying with unofficial practice tests to build up a strong knowledge base, and then move onto official practice tests when you're ready to estimate your real AP score level. As you take practice tests, assess your mistakes and plan out your study time according to which areas need the most work. Make sure you start with basic concepts and then work your way up to more complex problems. Use these practice materials to detect gaps in your knowledge, and fill them before you take the test! What's Next? Want to learn a bit more about the test before you start practicing? Read our expert guide to the AP Chemistry exam, which includes sample questions and study tips! If you want a complete overview of the concepts that will be covered on the test, check out our ultimate study guide for AP Chemistry. We also have a specific guide to balancing chemical equations, if that's something you need extra help with. Wondering how you can see chemistry in action in your day-to-day life? If you're looking for chemistry you can taste, we recommend this article on vegetable oil substitutes. If you're thinking more along the lines of something to play with, we have three different recipes for homemade slime. And if you need to clean things up afterwards, be sure to read our article on muriatic acid and how to safely use it. These recommendations are based solely on our knowledge and experience. If you purchase an item through one of our links, PrepScholar may receive a commission. Increase your exam confidence with these AP® Chemistry mock exams. By practising with mock exams, you'll get more familiar with the exam structure and types of questions. They're a great way to improve your timing, assess progress and identify which topics you need to focus on. Explore our AP® Chemistry mock exams for each exam board below.With Save My Exams, your revision resources are created by experienced educators and examiners, so you'll know exactly what to revise and how to answer questions for maximum marks. For most high school students, any AP course represents a challenge in terms of the content, workload, and necessary preparation for its corresponding AP exam. AP Chemistry is certainly no exception; however, with the right approach, this course can be mastered, and a top score can be attained on the AP exam. Whether you need top Chemistry tutors in Richmond, Chemistry tutors in Tulsa, or top Chemistry tutors in San Diego, working with a pro may take your studies to the next level. AP Chemistry covers many topics, but several of them are interrelated. For instance, thermochemistry and thermodynamics both involve the concept of enthalpy, while electrochemistry expands on the concepts of a redox reaction and identifying reducing and oxidizing agents. Lewis structures, atom hybridization, and molecular geometry are another example of closely related topics. Thus, understanding one topic can also help you understand other topics. When studying, try to identify how different concepts are related. Underlying these topics are basic concepts that must be mastered, and mastered early on in the course. One prominent example is balancing chemical equations. Virtually all later topics (enthalpy and entropy, electrochemistry, and stoichiometry, to name but a few) depend on one's knowing how to write a balanced chemical equation. Naming compounds and writing chemical formulas is another essential topic. In fact, it would be wise to expect an AP free-response question that names reactants and products and asks for a balanced chemical equation. Usually, providing this balanced equation makes up only the first of a four- or five-part question. If the chemical equation is wrong, however, it can make it very difficult to answer the rest of the questions correctly. In short, the topics covered early on in AP Chemistry (naming compounds, significant figures, naming and writing compound formulas, balancing equations, assigning oxidation numbers, etc.) provide the foundation for the topics covered later on in the course. As for the AP exam itself, it consists of two parts: a 90-minute multiple choice section with 60 questions, and a 90-minute free-response section divided into short and long responses. Note also that a calculator is allowed for the free-response section, and that a periodic table and constant chart are provided. In other words, don't waste your time trying to memorize the periodic table, formulas, and constants (such as the ideal gas law constant, R). They will be given! It is important, however, to understand how and when to use them. Varsity Tutors offers resources like a free AP Chemistry Flashcards help with your self-paced study, or you may want to consider an AP Chemistry tutor. To approach the multiple-choice section, use process of elimination to narrow down choices if you are uncertain about a question, and don't get bogged down on any given question. They are each worth the same number of points! If necessary, skip a question that you aren't sure about, or take an educated guess if you can eliminate some choices, then move on! The free response section is more open-ended, but it does provide the opportunity for partial credit. If you find one part of one question to be difficult, see if you can answer subsequent parts of the question. Sometimes, the answer depends on previous parts of the question, but this is not always the case. Finally, taking practice tests, before taking the AP Chemistry exam, is a good idea. You don't have to take multiple practice tests in one session; in fact, this could be done over several sessions. The main goal is to become familiar with the type of questions that the exam might ask, and how such questions can be approached. When beginning to study the structure of the AP Chemistry exam and its content, you can begin by taking Varsity Tutors' free AP Chemistry Practice Tests. Each free AP Chemistry Practice Test consists of 10 to 12 AP Chemistry questions; think of each practice test as being a quiz that can help you hone your skills. In addition to the AP Chemistry Practice Tests and AP Chemistry tutoring, you may also want to consider taking some of our AP Chemistry Diagnostic Tests. You might benefit from kicking off your review by taking one of the free Full-Length AP Chemistry Practice Tests, which cover the entire range of knowledge you may be asked about on the real exam. Just like the one for the regular practice tests, the complete practice tests' results pages include thorough explanations and pertinent information on each question's relevant concepts. The free online AP Chemistry practice tests can also aid in focusing your review plan by showing you the topics you have already mastered, and those you haven't. You can take advantage of any of the other Learning Tools to review as you work toward test day, and check your progress by taking another Full-Length AP Chemistry Practice Test. Since they mimic the actual exam, you'll be able to get that real test experience every time you take one. By taking lots of AP Chemistry Practice Tests, you can identify your strengths and weaknesses in understanding AP Chemistry material. In becoming familiar with the test, and in learning and mastering the key concepts that it assesses, you can greatly improve your chances of doing well both in the AP Chemistry course and on the AP Chemistry exam. Last Updated on April 21, 2025 FREE AP Chemistry Practice Test 2025 Study Guide (PDF). Prepare for the College Board's Advanced Placement® (AP®) Chemistry exam with our comprehensive 2025 practice test and study guide. Download printable question answers in PDF format to study effectively and enhance your understanding of key chemistry concepts. Our free quiz practice test is designed to help you succeed in the AP® Chemistry exam. Use this valuable resource to review and practice, ensuring you are well-prepared to achieve a high score. The College Board offers Advanced Placement examinations (AP exams) in the United States, which students take each May. The tests are the culmination of year-long Advanced Placement (AP) courses. AP exams (with a few exceptions) have a multiple-choice section and a free-response section. AP Chemistry Practice Test 2025 The following sample exam questions illustrate the relationship between the course framework and the AP Chemistry Exam, serving as examples of the types of questions that appear on the exam. Following the sample questions, a table indicates which skill, learning objective(s), and unit each question corresponds to. The table also provides the answers to the multiple-choice questions. Unit Wise Practice Test AP Chemistry Exam Score The AP Grades that are reported to students, high schools, colleges, and universities in July are on AP's five-point scale: AP Score Credit Recommendation College Grade Equivalent 5 Extremely well qualified A 4 Well qualified A- , B+ , B 3 Qualified B- , C+ , C 2 Possibly qualified N/A 1 No recommendation N/A AP Chemistry Exam Content The nine units in AP Chemistry are listed below, along with their weighting in the multiple-choice section of the AP Exam. Unit 1: Atomic Structure and Properties 7-9% Unit 2: Compound Structure and Properties 7-9% Unit 3: Properties of Substances and Mixtures18-22% Unit 4: Chemical Reactions 7-9% Unit 5: Kinetics 7-9% Unit 6: Thermodynamics 7-9% Unit 7: Equilibrium 7-9% Unit 8: Acids and Bases 11-15% Unit 9: Thermodynamics and Electrochemistry 7-9% The AP Chemistry Exam assesses students' understanding of the science practices and learning objectives outlined in the course framework. It is 3 hours and 15 minutes long and includes 60 multiple-choice and 7 free-response questions. A scientific or graphing calculator is recommended for Section II of the exam, but no calculators are permitted for Section I. Students are provided with the periodic table and a formula sheet that lists specific and relevant formulas for the exam. Timing: 90 minutes. Number of Questions: 60 multiple-choice questions. Note: Calculators are not allowed for use. Percentage of Exam Score: 50%. Timing: 105 minutes. Number of Questions: 3 long-form free-response questions and four short-form free-response questions. Note: Calculators are permitted for use. Percentage of Exam Score: 50%. Section I: Multiple-Choice Science Practices 1, 2, 4, 5, and 6 are all assessed in the multiple-choice section, with the following exam weighting (Science Practice 3 is not evaluated in the multiple-choice section) Practice 1: Models and Representations 8-12% Practice 2: Question and Method 8-12% Practice 4: Model Analysis 5-9% Practice 5: Mathematical Routines 35-42% Practice 6: Argumentation 8-12% Section II: Free-Response All six science practices are assessed in the free-response section with the following exam weighting: Practice 1: Models and Representations 2-4% Practice 2: Question and Method 10-16% Practice 3: Representing Data and Phenomena 8-16% Practice 4: Model Analysis 5-9% Practice 5: Mathematical Routines 43-53% Practice 6: Argumentation 15-24% The AP Development Committee is a group of college and high school Chemistry instructors who create the AP Chemistry exam. The committee's job is to ensure that the annual AP Chemistry exam accurately reflects the content taught in college-level Chemistry classes at high schools. This committee writes many multiple-choice questions, which are pre-tested and evaluated for clarity, appropriateness, and range of possible answers. The free-response essay questions that make up Section II go through a similar process of creation, modification, pre-testing, and final refinement so that the questions cover the necessary material areas and are at an appropriate level of difficulty and clarity. The committee also makes a great effort to construct a free-response exam that will allow for precise and equitable grading by the AP readers. It is essential to note that the AP Chemistry exam undergoes a thorough evaluation after its annual administration. This way, the College Board can use the results to make course suggestions and to plan future tests. AP Chemistry Exam Study Guide PDF We know studying for your AP exams can be stressful, but Fiveable has your back! We have created a study plan to help you crush your chemistry exam. AP Chemistry Resources Resource Name Action Course and Exam Description 2020 Download PDF AP Chemistry Exam Study Guide Download PDF AP Chemistry Past Exam Questions 2014 to 2019 View All Previous AP Chemistry Practice Test PDF Download the Past AP Chemistry Multiple Choice Questions and Answers in a printable PDF. Multiple-choice questions and Answer Key, Free-Response Questions, Scoring Guidelines, and Sample Student Responses with Commentary. Statistical Information about Student Performance in the respective years. Historical Exam Papers Download Year Download Link 1994 1999 Multiple choice 1999 Practice Exams 2002 2008