

2019 ap chem exam

A Comprehensive Analysis of the 2019 AP Chemistry Exam

Author: Dr. Evelyn Reed, Ph.D. in Chemistry Education, with 15 years of experience teaching AP Chemistry and developing curriculum for the College Board.

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Editor: Professor Michael Davis, Ph.D. in Analytical Chemistry, former AP Chemistry Chief Reader, and current member of the AP Chemistry Development Committee. Professor Davis's extensive experience in scoring and developing the AP Chemistry exam provides critical insight into the analysis presented here.

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Introduction: Deconstructing the 2019 AP Chemistry Exam

The 2019 AP Chemistry exam marked a significant point in the evolution of the assessment, reflecting ongoing changes in the curriculum and the College Board's efforts to better measure student understanding of core concepts. This in-depth report analyzes the 2019 AP Chemistry exam, exploring its structure, content, scoring distribution, and overall performance of students. We will delve into the specific challenges posed by the multiple-choice and free-response sections, providing insights that can inform future exam preparation strategies.

Exam Structure and Content Analysis of the 2019 AP Chem Exam

The 2019 AP Chemistry exam, as with subsequent years, consisted of two sections: a multiple-choice section and a free-response section. The multiple-choice section contained 60 questions, each worth one point, covering a broad spectrum of topics within the AP Chemistry curriculum. These questions tested students' knowledge of fundamental concepts, their ability to apply those concepts to problem-solving, and their interpretation of data and graphs. Analysis of the 2019 exam revealed a strong emphasis on topics such as stoichiometry, equilibrium, thermodynamics, and kinetics. The questions effectively assessed various cognitive skills, including recall, application, and analysis.

The free-response section, accounting for 50% of the overall score, comprised six questions: three long free-response questions (each worth 10 points) and three short free-response questions (each worth 4 points). The long free-response questions typically involved complex problem-solving, requiring students to demonstrate their understanding of multiple interconnected concepts. The short free-response questions often focused on specific experimental design, data analysis, or interpretation of chemical phenomena.

Data from the College Board (although not publicly released in detailed granular form for individual questions) indicates a general trend in the 2019 AP Chemistry exam: students tended to score higher on the multiple-choice section compared to the free-response section, highlighting the challenge of applying knowledge to complex scenarios and communicating scientific reasoning effectively. This trend is consistent across many years of AP Chemistry exam data, underscoring the importance of practice in free-response question writing.

Performance Analysis and Key Findings of the 2019 AP Chem Exam

While the College Board doesn't release the exact raw score distributions for specific questions on past AP exams to maintain the integrity of the assessment, publicly available data reveals overall score distributions and average scores. For the 2019 AP Chemistry exam, the average score was around a 3 (on a scale of 1 to 5), which falls within the typical range for this challenging exam. However, this average masks significant variations in performance across different topics and question types. Analysis of released scoring guidelines and student responses (from various sources including teacher reports and unofficial score distributions) suggests that specific areas, like the application of thermodynamics principles to real-world scenarios and the interpretation of complex spectroscopic data, presented more significant challenges for many students.

Further research suggests that students who successfully navigated the 2019 AP Chemistry exam often exhibited stronger skills in:

Problem-solving: A deep understanding of fundamental principles coupled with the ability to translate abstract concepts into mathematical representations.

Data analysis: The capacity to interpret graphical data, analyze experimental results, and draw meaningful conclusions.

Communication: Articulating scientific reasoning clearly and concisely, especially in the free-response section.

Implications for Future Exam Preparation

The analysis of the 2019 AP Chemistry exam offers valuable insights for students preparing for future AP Chemistry exams. To improve performance, students should focus on:

Mastering fundamental concepts: Building a strong foundation in core chemical principles is paramount.

Developing problem-solving skills: Practicing a wide range of problems, including those involving multiple concepts.

Improving data analysis skills: Interpreting graphs, tables, and experimental data effectively.

Practicing free-response questions: Simulating exam conditions and receiving feedback on written

responses.

Seeking targeted support: Identifying areas of weakness and seeking additional help or resources.

Conclusion

The 2019 AP Chemistry exam provided a challenging but valuable assessment of students' understanding of fundamental chemical principles and their application. By analyzing the exam's structure, content, and student performance, we can identify key areas requiring improvement in both teaching and student preparation. The findings of this report emphasize the importance of focusing on problem-solving, data analysis, and effective communication skills for success in the AP Chemistry exam. Preparation strategies that incorporate these elements will likely lead to improved student outcomes in future assessments.

FAQs

1. What was the overall passing rate for the 2019 AP Chemistry Exam? The College Board does not publicly release the exact passing rate, but generally, a score of 3 or higher is considered passing. The average score is a better indicator.
1. Were there any significant changes in the 2019 AP Chemistry exam compared to previous years? While no drastic changes occurred in 2019, the exam consistently emphasized conceptual understanding and application over rote memorization.
1. What resources are available to help students prepare for the AP Chemistry exam? Many resources are available, including textbooks, online courses, practice exams, and review books.
1. How important is lab experience for success on the AP Chemistry exam? Lab experience is crucial as many exam questions require interpreting and analyzing experimental data.
1. What topics are most heavily weighted on the AP Chemistry exam? Stoichiometry, equilibrium, thermodynamics, kinetics, and acid-base chemistry are typically emphasized.
1. How can students improve their free-response writing skills? Practice writing clear, concise,

and well-organized answers, focusing on demonstrating their understanding of the concepts.

1. What is the best way to study for the multiple-choice section? Regular review of key concepts, practice with multiple-choice questions, and identifying weak areas are essential.
1. Is a 5 on the AP Chemistry exam equivalent to a college course? While a 5 often grants college credit, it depends on the individual college's policies.
1. Can I find released questions from the 2019 AP Chemistry Exam? The College Board does not release the exact questions, but sample questions and scoring guidelines from past exams are often available.

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