

# AP Chemistry

Teacher Expectations		Student Expectations and Learning Outcomes
<b>Recommended Preparation:</b> C or better in high school chemistry and Algebra II.		Students should be able to do the following: <ul style="list-style-type: none"><li>∞ Use representations and models to communicate scientific phenomena and solve scientific problems</li><li>∞ Use mathematics appropriately</li><li>∞ Engage in scientific questioning to extend thinking or to guide investigations within the context of the AP course</li><li>∞ Plan and implement data collection strategies in relation to a particular scientific question</li><li>∞ Perform data analysis and evaluation of evidence</li><li>∞ Work with scientific explanations and theories</li><li>∞ Connect and relate knowledge across various scales, concepts, and representations in and across domains.</li></ul>
<b>Average HW Time:</b> 6-7 Hours a week		
<b>After-school Labs and Study Sessions:</b> Suggested		
<b>Activities: (Place X next to)</b>	<b>Important information that students need to know about this course:</b>	
Group Projects X	The AP Chemistry course provides students with a college-level foundation to support future advanced course work in chemistry. Students cultivate their understanding of chemistry through inquiry-based investigations, as they explore topics such as: atomic structure, intermolecular forces and bonding, chemical reactions, kinetics, thermodynamics, and equilibrium.	
Individual Projects X		
Lab Reports X		
Textbook Reading X		
Textbook Notes X		
Research X		
Primary and Secondary Source Analysis X		
Use of Technology X		
Google Classroom		
Essays		
Short Answers X		

## About AP Chemistry

The Advanced Placement Program<sup>®</sup> enables willing and academically prepared students to pursue college-level studies — with the opportunity to earn college credit, advanced placement, or both — while still in high school. AP Exams are given each year in May. Students who earn a qualifying score on an AP Exam are typically eligible, in college, to receive credit, placement into advanced courses, or both. Every aspect of AP course and exam development is the result of collaboration between AP teachers and college faculty. They work together to develop AP courses and exams, set scoring standards, and score the exams. College faculty review every AP teacher's course syllabus.

### Format of the AP Chemistry Test

Section I: Multiple Choice: 60 Questions | 90 Minutes | 50% of Exam Score

- Discrete items
- Items in sets

Section II: Free Response: 7 Questions | 105 Minutes | 50% of Exam Score

Three long- and four short-answer questions. The seven questions ensure the assessment of the following skills: experimental design, quantitative/qualitative translation, analysis of authentic lab data and observations to identify patterns or explain phenomena, creating or analyzing atomic and molecular views to explain observations, and following a logical/analytical pathway to solve a problem.