

AP Chemistry

Mr. Jason Harper and Ms. Ann VanGheem

Classroom: E209

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Google Classroom Code: uxtz1h9

Availability: Posted In-Classroom and Online



What is AP Chemistry?

Welcome to AP Chemistry! This is a rigorous science course meant to prepare students for success in college. Simply put, chemistry is the study of the composition and changes of matter in the world around us. In this class, you will embark on an adventure where you will learn not only chemistry, but also strategies and processes for problem solving that you can use your entire life. We will explore the main concepts of chemistry through the lens of a real world context using direct instruction, lab explorations, demonstrations, and interactive assignments. Get ready to work hard, learn, and have fun!

Topics of Study

Unit 1: Foundations of Chemistry

Unit 2: Stoichiometry and Chemical Reactions

Unit 3: Gases

Unit 4: Structure of the Atom

Unit 5: Chemical Bonding

Unit 6: Intermolecular Forces

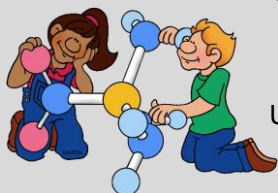
Unit 7: Electrochemistry

Unit 8: Thermochemistry

Unit 9: Chemical Kinetics

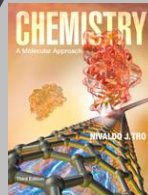
Unit 10: Chemical Equilibrium

Unit 11: Acids and Bases



Required Materials

- Needed in Class Everyday -



**Textbook: Chemistry
A Molecular Approach**
Tro, Nivaldo J.

**Checked out to students from the
Andover Science Department*

**School-Issued
Chromebook**

**Checked out to students from the
Andover Science Department*



**Scientific Calculator with
[EE] key**

**TI-30X IIS is recommended
Graphing Calculators accepted

- Specifically for AP Chemistry -

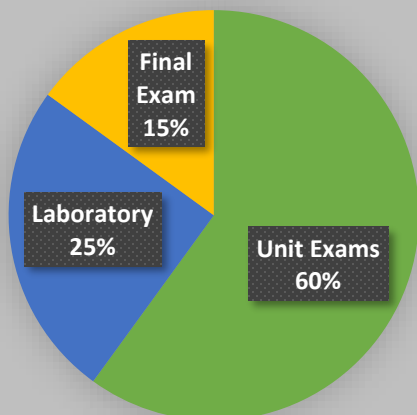
**Quad-Ruled
Lab Notebook**

**1-in Binder &
Notebook**

**Pens &
Pencils**



Grading



Course Grading Scale		
A : 93.00-100%	B- : 80.00-82.99%	D+ : 67.00-69.99%
A- : 90.00-92.99%	C+ : 77.00-79.99%	D : 63.00-66.99%
B+ : 87.00-89.99%	C : 73.00-76.99%	D- : 60.00-62.99%
B : 83.00-86.99%	C- : 70.00-72.99%	F : 0-59.99%

Grades are determined by the percentage of points earned on:
 Unit Assessments – Written and Practical Assessments
 Lab – Lab Explorations and Lab Reports
 Final Exam – Cumulative End of Term Exam

Grading modifications may be made for students with IEP or 504 plans.

Policies and Procedures



Lab Reports

All student labs will be completed in a **quad-ruled composition notebook**. Students will be required to supply their own lab notebook. Lab notebooks will be available for purchase from the Science Department at a cost of \$2.00 (cash only).

All lab reports will be written following the Andover Science Lab Report Format (see handout).



Formative Assessments (Activities, Quizzes & Problem Sets)

In order to fully understand the material in class, you must practice. Students will be given multiple opportunities through group structured activities, quizzes and individual problem sets to practice skills from the lesson. The formative assessments will be put into the gradebook in a category called "Not for Grading (NFG)." It is our goal to get students to self-assess their needs and complete any additional work that is necessary to be successful in the class.

Formative assessments for your benefit! Students who consistently make an effort to keep up with activities, quizzes and problem sets perform substantially better on unit tests and the final exam.



Summative Assessments (Unit Exams and Final Exam)

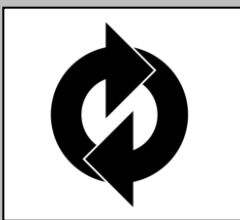
There will be a Unit Exam at the end of each unit of study. Students will be expected to take all assessments on the day that they are scheduled. If a student is absent for the scheduled assessment date, they will be expected to make up that assessment within one week of the original assessment date.

At the end of the trimester, students will take a cumulative Final Exam. The Final Exam will cover all chemistry and lab content covered in AP Chemistry to that point.

Reassessment & Relearning

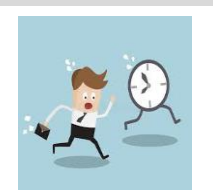
AP Chemistry students will be allowed to reassess on Unit Exams (within each trimester). The reassessment score will replace the original score.

AP Chemistry students will need to complete the "Reassessment Ticket" for each Unit Exam they wish to reassess. Reassessment Tickets will be posted to our google classroom site. The reassessment must be completed within two weeks of the original assessment.



Late/Missing Work

Lab reports are due two days after the lab is completed in class for full credit. Lab reports not turned in by the due date will be accepted until the end of the trimester with a deduction of 10% on that particular lab report.



Electronic Devices

In the interest in maximizing student achievement, cell phones and other electronic devices (with the exception of school-issued Chrome books) will only be used when directed by the teacher.



