

AP Chemistry Syllabus

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AP CHEMISTRY EXAM DATE: Monday, May 6th, 2024

REQUIRED MATERIALS:

- 3-ring binder with 9 dividers (see below for sections)
- Calculator capable of performing logarithmic functions (TI-84 Plus)
- Paper/Pencils/Various Colored Pens
- Chromebook

TEXTBOOK: *Chemistry, A Molecular Approach* by Nivaldo Tro. Cost if lost or damaged \$

COURSE DESCRIPTION: AP Chemistry is one of the most rigorous, academically challenging courses that can be taken in high school. It is designed to be the equivalent of the general chemistry course usually taken during the first year of college.

| Unit | Sub Topic | Tests |
|--|---|--------------|
| 1: Atomic Structure & Properties | Atoms/Periodic Trends | Test 1 |
| 2: Molecular & Ionic Compound Structure & Properties | Bonding | Test 2 |
| 3: Intermolecular Forces & Properties | IMFs Gases Solutions | Test 3a & 3b |
| 4: Chemical Reactions | Reactions/Stoichiometry | Test 4 |
| 5: Kinetics | Reaction Rates/Mechanisms Catalysts | Test 5 |
| 6: Thermodynamics | Endo/Exothermic Enthalpy (ΔH) | Test 6 |
| 7: Equilibrium | General Equilibrium Solubility Equilibrium | Test 7 |
| 8: Acids & Bases | Acids & Bases Buffers & Titrations | Test 8 |
| 9: Application of Thermodynamics | Entropy Electrochemistry | Test 9 |

GRADING SCALE:

| | |
|--------|---|
| 90-100 | A |
| 80-89 | B |
| 70-79 | C |
| 0-69 | F |

GRADING PROCEDURE: Grades will be updated weekly and available to both students and parents via the Infinite Campus portal.

- *Major Assessments (45%)*
 - *Tests*
- *Minor Assessments (20%)*
 - *Quizzes*
 - *Pre/Post Lab Assignments*
- *Daily Work (15%)*
 - *Classwork*
 - *Homework*
- *Final Assessment* (20%)*

***This course requires a full length College Board exam each semester which will be one of the major assessments.**

RETAKE POLICY: There are no test retakes in this AP Chemistry course.

AP EXAM TIMELINE:

- TBA

AP EXAMS:

The state of Georgia will pay for **one** AP exam for Georgia public school students enrolled in AP courses in **one of two** categories:

- **Category 1:** Students are public school students who individually qualify for the CollegeBoard fee reduction. For these students, the state of Georgia will pay for one AP exam in any subject (with the exception of AP Seminar and AP Research).
- **Category 2:** Students are public school students who do not qualify for the CollegeBoard fee reduction. For these students, the state of Georgia will pay the cost of one STEM exam for students enrolled in an AP STEM course.

TEACHER EXPECTATIONS:

Academic Attitude: This course will require daily preparation (**homework EVERY night**). Students are expected to maintain high academic and personal standards. The successful completion of this course heavily depends on the completion of homework assignments and preparation for the next day's class.

Lab Participation: Laboratory work is an essential part of this course. All safety rules and procedures must be followed at all times. Pre-lab, post-lab and lab practicals will all be used for assessment of understanding. Some of the AP Chemistry labs require an extended period of time and, as such, may require time after school or during SOAR for completion.

Student Conduct: Students will be provided with an organized, efficient, and challenging classroom environment that promotes academic excellence. In return, students will follow my two cardinal rules: integrity and consideration. It is expected and required that VHS rules of conduct and classroom safety be followed at all times. Failure to do so will result in a swift response and appropriate consequence as outlined in the VHS Student Handbook.

TUTORING: *See the tutoring schedule posted in the classroom/on my door.

CHROMEBOOK POLICY:

All students are issued a district-provided chrome book for instructional purposes, student engagement, and student learning. Chrome book use is at the direction and discretion of the classroom teacher.

ONLINE RESOURCES:

1. **College Board Site** (classroom resources, process monitoring, registering for exams, score reporting)
 - a. **Go to Myapcollegeboard.org**
 - b. Join Code: _____

PRINTED STUDENT NAME

PERIOD

COURSE: AP CHEM

INSTRUCTOR: LINDSAY LAMBERT

_____ I have read and will abide by the policies outlined in the SYLLABUS.

_____ I have read and will abide by the LAB SAFETY CONTRACT

_____ I acknowledge that, in the event of my extended absence, it is my responsibility to notify my instructor (Mrs. Lambert) via email as well as access Google Classroom/College Board website on a daily basis for the purpose of viewing/obtaining ALL missed content/assignments. I also acknowledge that I am expected to submit ALL aforementioned assignments for grading in a timely manner per my instructor's preferred method of submission (email).

STUDENT SIGNATURE

DATE

PRINT PARENT NAME

PARENT PHONE #

PARENT SIGNATURE _____

DATE _____

AP CHEM LAB SAFETY CONTRACT**QUESTIONS**

1. Do you wear contact lenses? YES NO
2. Are you color blind? YES NO
3. Do you have allergies? YES NO If so, list specific allergies:
4. Is there any medical condition that I need to be aware of? If so, please list:

STUDENT AGREEMENT

I, _____, (student's name) have read and agree to follow all of the safety rules set forth in the attached contract. I realize that I must follow these rules to ensure my own safety, and that of my fellow students and instructors. I will cooperate to the fullest extent with my instructor and fellow students to maintain a safe lab environment. I will also closely follow the oral and written instructions provided by the instructor. I am aware that any violation of this safety contract that results in unsafe conduct in the laboratory or misbehavior on my part, may result in being removed from the laboratory, detention, receiving a daily grade, and/or dismissal from the course.

Student Signature: _____ Date: _____

PARENT/GUARDIAN AGREEMENT

Dear Parent/Guardian,

We feel that you should be informed regarding the school's efforts to create and maintain a safe science classroom/laboratory environment. With the cooperation of the instructors, parents, and students, a safety instruction program can eliminate, prevent, and correct possible hazards. You should be aware of the safety instructions your student will receive before engaging in any laboratory work. Please read the list of safety rules in the attached contract. No student will be permitted to perform laboratory activities unless this contract is signed by both the student and parent/guardian and is on file with the instructor. Your signature indicates that you have read the *Student Safety Contract*, are aware of the measures taken to ensure the safety of your student in the laboratory, and will instruct your student to uphold their agreement to follow these rules and procedures in the laboratory.

Parent/Guardian Signature: _____ Date: _____