**AP Chemistry Syllabus**

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**Required Materials:**

3-ring binder with 9 dividers (see below for sections)

Calculator capable of performing logarithmic functions

Colored pencils

A device to access Google Classroom/AP Classroom

**Textbook:**

Pearson: Chemistry, A Molecular Approach (hardcopy and online versions will be provided). Replacement cost: **$163.47**

**AP CHEMISTRY EXAM DATE:**

**AP Chemistry exam date: Monday, May 2, 2022**

**Teacher Expectations:**

**Academic Attitude:** This course will require daily preparation. Students are expected to maintain high academic and personal standards.

**Laboratory Participation:** Students will be required to follow all safety procedures at all times during labs. Failure to follow proper lab protocol and safety procedures will result in an immediate dismissal from the lab and a zero for that assignment. If a student is absent during a lab, an alternative assignment may be provided at teacher discretion.

**Class Participation:** Students are expected to participate in class discussions and activities.

**Student Conduct:** Students will be provided with an organized, efficient, and challenging classroom environment that promotes academic excellence. In return, it is expected and required that VHS rules of conduct and classroom safety rules be followed at all times.

Late work and Class Absences/Academic Integrity: Policies outlined in the VHS Student Handbook will be followed.

**Tutoring Availability:** Tutoring will be available after school on Thursdays.

**Grading:** Grades will be updated weekly and available to parents and students via the parent portal.

Major Assessments                45%

Daily Work                            15%

Minor Assessments             20%

Final Assessment           20%

**AP Exam timeline:**

**AP Chemistry exam date: Monday, May 2, 2022**

* 8.21.21– Deadline for students to electronically join all AP classes on College Board website (apcentral.collegeboard.org ). \*Help line for students and parents 1-888-225-5427
* 10.29.21 – Deadline for students to register for AP exams on the College Board website.
* 2.18.22 – Deadline to pay all AP exam fees.

**AP Fees**

Paid Students:

· $96.00 per exam

Free and Reduced lunch students:

· First exam regardless of course is paid for by GADOE and is free of charge to the student.

· Additional exams for FR students are $53 each.

STEM exams

· For students who do not qualify for College Board fee reduction, GADOE will pay for one AP STEM exam for each student enrolled in an AP STEM course.

Exams ordered after ordering deadline:

· $40 fee per exam **regardless of free and reduced lunch/STEM status**.

Cancel or fail to take AP exam after ordering deadline:

· $40 fee per exam **regardless of free and reduced lunch/STEM status**.

**Online Resources**

1. **College Board site** (for resources, exam registration/score reporting): <https://myap.collegeboard.org/>

5th Period join code:

2WGAQ3

7th Period join code:

4WWJJ4

1. **Google Classroom**

To encourage blended learning, online assignments will be posted weekly through Google Classroom. At least one Google Classroom assignment per week will be graded and entered in Infinite Campus. Students should be familiar with how to navigate the online platform, communicate with their teacher, and submit assignments on time.  If there are technology limitations, please notify the teacher.

1. **TEXTBOOK SITE AND ONLINE HOMEWORK SYSTEM**

You will have access to an online textbook. We will register for that textbook in class. Additionally, you will have a weekly online homework assignment that is accessed at our course home page or on the College Board site.

**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.

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

**PARENT SIGNATURES**

**Parent signatures for this syllabus and for the lab safety acknowledgement statement will be collect via your student’s Google Classroom Page. Your student will be able to pull up that page for you. At that time, you may also set up parent access to the course.**