

AP Chemistry Syllabus

TEXT:

Chemistry, by Steven Zumdahl and Susan Zumdahl, 9th Edition, Prentice Hall, 2014.
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GENERAL INTRODUCTION:

AP Chemistry is a class that is designed to be rigorous and to help prepare the students for the AP Chemistry test in the spring. This class is the equivalent of college freshman chemistry and must maintain a high standard. In this class you will learn about topics that we did not have time to go into in Pre AP Chemistry as well as go deeper into topics that we have already learned about. Topics new to this year of Chemistry include Equilibrium, Kinetics, Thermodynamics, Redox Reactions, Buffers, and Solubility Product Constant.

STUDENT RESPONSIBILITY:

In this class, if you get lost or need assistance, please ask questions. There are many times where we will take small concepts that we have learned and piece them together to make larger generalizations, and you need to make sure that you understand how we arrived at this understanding.

The students are also expected to work assigned questions and exercises. Students should have a notebook in which they keep their notes and labs. It will give you examples of how to do the homework, how to determine what is going on in the lab, and helps with preparation for the AP test as well as test in class.

Homework will be given to help better understand and to practice the different concepts that are being taught. These are due the next class period and will be graded and turned back before the test is given so that the student can see what mistakes they are making. Late work is given a high of 75% up to two days after the date it was due, at which time it becomes a zero. Homework is planned in advance and is available to students that have to attend meetings, events, or field trips. It will also be placed on <http://mayberryapchemistry.pbworks.com> along with a podcast of the notes so that a student that misses will have the same opportunity to gather the information that they need for the test, and aren't falling further behind.

Grading Percentages:

60% Test
35% Homework, Labs, Daily Assignments
5% Reading Assignment

RULES of the COURSE:

1. **Respect everyone.**
2. **Stay in your seat unless otherwise directed by the instructor.**
3. **Follow the safety guidelines of the lab.**
4. **Participate in the class. The best way to learn is by doing.**

GOALS of the COURSE:

- To help students be able to think independently and be able to apply this knowledge to other subjects.
- Students will be able to apply this knowledge to the surrounding environment, historical events, and future events.
- Students will be prepared for college chemistry.
- Students will make a passing score on the AP Exam given in May
- In the laboratory experiments, the students will manipulate laboratory apparatuses, chemicals, and procedures. They will make hypothesis about what they believe will happen based upon past knowledge, and then test the hypothesis to see if it is true. They will communicate their procedure, the background to the experiment, and their results, in a type written formal lab write up.

REQUIREMENTS FOR THE CLASS:

What the student will need:

- A 3 ring binder to keep notes, homework, and labs in.
- A calculator with trig functions – **ALTHOUGH A CALCULATOR IS NOT ALLOWED ON MOST OF THE AP EXAM.**
- A roll of paper towels and a box of Kleenex.

LABS:

Labs will be done after school. The students will have the choice between Monday, Tuesday, Wednesday, or Thursday and will sign up with their partner for the day that works for them. If a student is not able to make it on their day, they need to make prior arrangements for an alternative date.

SCHEDULE of the YEAR

First Semester:

Net Ionic Reactions (2 Weeks)
Atomic Theory (2 Weeks)
Periodic Trends (1 Week)
Chemical Bonding (1 ½ Weeks)
Molecular Orbital Theory (1 Week)
Gas Laws (2 Weeks)
Liquids and Solids (1 ½ Weeks)
Kinetics (2 Weeks)
Thermodynamics (2 Weeks)

Second Semester:

Intro to Acids and Bases (1 Week)
Acids and Bases (1 ½ Weeks)
Solutions (2 Weeks)
Equilibrium (2 Weeks)
Weak Acids and Bases (2 Weeks)
Solubility Product Constant (2 Weeks)
Electrochemistry (2 Weeks)
Buffers (1 ½ Weeks)
Review for the AP Test (2 weeks)

I, the undersigned, have read and understand the policies, procedures, expectations, and consequences contained within this information sheet. I verify that I will stand by these rules, and if not, will be ready to face the consequences of my decisions.

Name: _____ Date: _____

Signed Name: _____

Parent's Signature: _____

Parent's Email: _____

Secondary Honor Code

Learning is Essential for Liberty – Thomas Jefferson

This Honor Code was developed by Clear Creek ISD high school students with the expressed intent to state that our Academic Integrity is being challenged in the face of high stakes testing and reports of periodic cheating. Therefore, it has become a moral imperative that our work ethic today will impact our future.

We believe the students of Clear Creek ISD subscribe to becoming self-directed learners and doing the best we can. Furthermore, we believe that academic honesty is respecting yourself and others, as well as claiming your own work.

We believe students are responsible for maintaining and supporting the academic integrity of the school by completing all assigned work, activities, and tests in an honorable process without engaging in cheating, fraud, plagiarism, or prohibitive electronic assistance. Through this effort, we will become trusted members of society and prepared for the workforce of the 21st Century.

We believe teachers are responsible for monitoring students during all assessments and holding students accountable for cheating. We believe that each class and teacher is only as strong as each individual's personal commitment to integrity, honor, and responsibility. Teachers are also encouraged to have faith in their student's success and for making sure the class is highly engaging.

We believe the measure of success of our school community is based on the success of our students so the consequences below shall serve as a deterrent to a violation of this Honor Code and Our Academic Integrity. These consequences will be listed in our Secondary Student Code of Conduct in addition to the In School Suspension consequence. As a result of clear and compelling evidence of student's cheating:

1. A student shall receive a "0" for the school work, and is subject to a "U" in conduct and disciplinary action (including ineligibility in the next contest/game).
2. There will be no retakes for students who cheat.
3. Students who are enrolled in advanced academic courses (Pre-AP/AP) will be immediately removed from the advanced academic course and placed in the next lower level class.
4. A student is not eligible for any final exam exemption.
5. A documented finding of academic dishonesty shall be reported on the student's college application.
6. Students in violation of the Honor Code shall be immediately removed from the National Honor Society, National Junior Honor Society and any other Honor Society that is an organized school event.

Your signature below indicates that you have received a copy of the Secondary Honor Code.

Student Signature/Date

Student Printed Name