



2019 - 2020 CHEMISTRY CP COURSE SYLLABUS



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What is Chemistry?

Chemistry is the study of matter (anything with mass and volume) and its changes.

Everything you touch, taste or smell is made of matter. Studying chemistry means you look at the unseen composition of the world around you. Chemistry helps us understand everyday observations such as why salt dissolves better in hot water or how antacids work. Knowing some chemistry will help you better understand the world at an atomic level.

Course Description:

Chemistry CP is a full year course designed to enhance science literacy with emphasis on problem-solving and analytic skills. The course includes laboratory activities and experiments. Students will gain experience in hands-on activities, practice laboratory techniques and develop critical thinking skills. *CP Chemistry meets the A-G requirements for a laboratory science.*

Chemistry CP will prepare students to continue to the next level of high school science courses offered (AP Chemistry, AP Physics, AP Biology, AP Environmental).

Course Prerequisite:

Successful completion of IM 1 with a C or better.

Course Objectives (based on the California Science Framework in Chemistry):

The chemistry course is divided into five instructional segments organized around the relevant physical science disciplinary core ideas following a conceptual flow that builds in complexity.

- Students begin with a macroscopic view of the properties of matter.
- Students explain those properties in terms of the internal structure of atoms and chemical bonding.
- Students investigate basic chemical reactions and then further complexities of equilibrium and reaction kinetics.
- Students explain energy transfer during chemical reactions and return to the macroscopic scale to discuss thermodynamics and heat transfer.

Course Outline:

1st Semester:

- Matter
- Atomic Theory
- Periodic Table
- Periodic Trends
- Ionic Compounds
- Molecular Compounds
- Chemical Reactions

2nd Semester:

- Molar Conversions
- Stoichiometry
- States of Matter
- Solutions
- Thermodynamics
- Reaction Rates
- Equilibrium
- Nuclear

Projects:

- 1st semester: *Chemicals in My World* and *Element Investigation*
- 2nd semester: *Chemical Demonstrations*

Homework:

- Homework is an essential component in gaining an understanding of Chemistry.
- **Homework will be assigned EVERYDAY.** * _____
- Homework is DUE at the BEGINNING of class the next day.
- Work needing **CORRECTIONS** is to be resubmitted next day.
- **LATE** work can be submitted the **ONE DAY LATE ONLY** for **75%**.
- **STAMPED** homework packets are due on **within one week**.

Laboratory Guidelines:

- Each student and PARENT must sign the laboratory safety rules contract.
- Students must **pass the safety rules exam 100% before they can begin participate in lab.** * _____
- Students will have *ONE month* to meet this requirement without penalty.
- Students are **required to WRITE a LAB REPORT** before they perform it in the laboratory.
- See laboratory handout for directions on how to write a laboratory report.
- **Due to the nature of lab work: missed labs cannot be made up.**

Chemistry Binder: * _____

Each student will be required to keep a **3-inch 3-ring binder** with all of the work from this chemistry class. Binders will be evaluated once each quarter. Refer to the Chemistry Binder handout for information on required elements and organization of the binder.

Participation:

Participation points are earned through class activities such as video notes, formative quizzes, group work, signed course materials and other in-class activities. These points cannot be made up if a student is absent.

Grading Assessment and Scale:

Each student will be evaluated according to the criteria below. Grades are determined by summing the percentages earned in each of the following weighted categories:

Exams	40%	Quizzes	5%
Homework	20%	Projects	5%
Laboratory	20%	<u>Binder</u>	<u>5%</u>
Participation	5%	Total	100%

Work Habit grade is based on participation, effort, and quality of work.

Citizenship grade is based on classroom behavior, attendance, tardiness, and attitude.

100-90.00% - A 89.99-80.00% - B 79.99-70.00% - C 69.99-60.00% - D

Less than 59.99% is failing, student will need to repeat the class for credit.

Participation:

Participation points are earned through class activities such as video notes, formative quizzes, group work, signed course materials and other in-class activities. These points cannot be made up if a student is absent.

Materials Required:

- 3 Ring Binder
- College Ruled Paper
- Dividers
- Highlighters
- Scientific Calculator

Online Resources:

Class Website: <https://nataliemarquez1.wixsite.com/marquezfohisci>

It is the student's responsibility to access course materials such as NOTES & LABS online. Access is available in the library at lunch and before and after school. You will also find other helpful information like daily homework assignments.

Class Rules:

- Be on time and ready to learn. This means in your seat with materials out, ready to go. Stay in your seat until the bell rings at the end of class.
- TARDY = DETENTION!!!
- Attend to personal needs before coming to class. Bathroom pass means time away from learning. ☹ Students will be allowed to leave the room 2 times per semester for restroom use. Accommodations will be made for those students with medical conditions when a doctor's note is received.
- Bring all required materials EVERYDAY (paper, pencils, pens, highlighters, etc.)
- When I am speaking, you are not. This is common courtesy. If you have a question or comment please raise your hand.
- Leave the classroom clean. It will be clean when you arrive so it makes sense to leave it the way you found it. This applies especially on lab days.
- Food and Drinks are not allowed in class. This includes the selling and consumption of candy and gum.
- Keep all **hats and electronic devices** turned off and out of sight. If I see them, I will take them and you will have to retrieve them from security.

CELL PHONES may only be used before and after school, and at lunch. Cell phones must be silenced during class time. If a student is caught using a cell phone (calling or texting) or a cell phone rings during class time, a warning will be given. After a second offense, it will be confiscated and will only be retrievable after school. After a third offense, it will be confiscated and will only be retrievable from the Security office

- NO CHEATING. See Code of Honor for consequences.
- Seek help if you're lost or behind in understanding. There are people that will help you...you just have to ask.

Consequences for Choosing not to Follow Classroom Rules:

- 1st Offenses: Verbal Warning
- 2nd Offense: 20-min Detention (after school)
- 3rd Offense: Parent Contact and 30-min Detention (after school)
- 4th+ Offense: Parent Conference/Referral to administrator

Participation/Attendance:

Attendance is a very important part of your participation grade. Participation/Attendance is 5% of your grade. *You may fail the class if you miss more than 15 days. Generally, students who miss 20 days fail.*

Tardy Policy:

A student is tardy if he/she is not in their seat by the time the last bell rings. **Rushing through the door as the bell rings is a tardy! If you are tardy, you will serve a 20-minute detention after school and a phone call home to your parents will be made.** If you do not serve the detention, you will be sent to assistant principal with a referral. Additional tardies will result in additional consequences.

Additional Help:

Chemistry may be the toughest class you have taken so far. However, this doesn't mean that it's an impossible class, only that more effort is needed to meet this challenge!

- *After school Tuesday's & Thursdays until 3:30 pm. and teacher Wednesdays 1-2:30pm.*
- *Library - Every day after school and Saturdays!*

I have read and agree to the requirements and policies of CP Chemistry.

Student First and Last Name

Parent First and Last Name

Student Signature

Parent Signature

PERIOD

Date signed

****Syllabus is to be kept in student notebook throughout the entire school year.****