

**Coronado High School
Chemistry Honors Expectancy**

Teacher: Mrs. Young Room 905

Credit: one

Textbook: Merrill Chemistry, copyright 1998 publisher: Glencoe/Merrill

Course Overview:

This first year course is designed for students who have successfully completed Algebra I and exhibit interest in science. Topics include: mathematics of chemistry, atomic theory and structure, laboratory procedures and safety, elements, compounds and mixtures, the structure and organization of the periodic table of elements, chemical bonding, nomenclature, the mole concept, acids-bases-salts, equilibrium, organic chemistry, radiation and nuclear chemistry, ecology and relationships of chemistry to the environment, biochemistry, electrochemistry, and forensic chemistry. The course will fulfill one of the science credits required for high school graduation, and will meet the college entrance requirements for laboratory science.

Course Goals:

1. To develop the basic skill of using the scientific method of problem solving.
2. To be thoroughly familiar with safe, efficient, and effective laboratory rules and procedures.
3. To develop basic laboratory techniques and skills in using laboratory equipment.
4. To develop skill in using symbols, terms, equations, metric system measurements, and use of mathematical calculations to express chemistry processes.
5. To develop an understanding of the differences among elements, compounds, and mixtures.
6. To develop an understanding of atomic structures.
7. To develop an understanding of and ability to use periodic tables.
8. To develop an understanding of chemical bonding.
9. To develop an understanding of and skill in writing and naming chemical formulas.
10. To recognize and balance the various types of chemical equations.
11. To develop an understanding of stoichiometry.
12. To develop an understanding of the qualitative and quantitative similarities and differences among gases, liquids, and solids.
13. To develop and understanding of qualitative and quantitative interrelationships of pressure, temperature, and volume of solids and liquids in general, and gases in particular.
14. To develop an understanding of the solution process.
15. To recognize the major differences between acids, bases, and salts.
16. To develop a basic understanding of kinetic theory.
17. To develop a basic background in kinetics.
18. To develop a basic understanding of electrochemistry.
19. To develop an understanding of basic organic chemistry.
20. To introduce basic nuclear chemistry.

21. To relate principles of chemistry to current societal items of concern such as the energy crisis, nuclear waste, and pollution in order to study current problems, describe and propose solutions, and evaluate the consequences of these solutions.
22. To have an awareness of the occupational opportunities related to chemistry.

Grading Policy:

Grading Scale: Letter grades will be assigned based on the following grading scale:

100-89.5	A
89.4-79.5	B
79.4-69.5	C
69.4-59.5	D
59.4 and below	F

- Grades will be posted in the classroom at least 4 times each quarter.
Grades will only be discussed before or after school.

Grade Distribution:

TESTS: Tests and quizzes will be administered throughout the course to determine the students' individual progress. Tests and quizzes will account for 60% of each quarter's grade. Tests will be given at the end of each unit of study. A final exam will be given at the end of each semester. The final will count for 10% of your semester grade. Semester two final exam is cumulative for the entire year of study.

LABORATORIES: Lab activities will be completed throughout the course of the year to reinforce learning. Labs will emphasize hands on learning in a cooperative environment. Students who fail a lab for disciplinary reasons may not participate in the next lab. Any student not participating in a lab will be given an alternative assignment of equal point value. Labs activities will account for 20 % of each quarter's grade. Students will be required to follow lab guidelines for their write-ups.

ASSIGNMENTS/HOMEWORK: Students are expected to complete all assignments to the best of their abilities. Assignments will be completed in class or at home as homework. You are expected to turn in all work on time. You are also expected to show all work on assignments. Assignments will count for 15% of your semester grade.

- Homework will be assigned 3 to 4 times per week.

NOTEBOOK: You are required to have a notebook with paper, pencils, black or blue pens, highlighter, and a **calculator** (preferably one that will perform exponential functions). You will be expected to maintain one section in your notebook for this class only.

Notebook Guidelines:

1. You must show work on all assignments in your notebooks for any credit.

2. There will be notebook checks administered periodically so keep your notebook neat, orderly, and compliant with notebook procedures outlined in class.
3. Notes taken in class will be fill- in the blank format. You must rewrite these notes in outline form for your notebook.
4. Notebook checks will account for 5% of each quarter's grade.

Make-up Work: It is your responsibility to find out what assignments were missed in your absence.

Make-up work procedure:

1. Write objectives and class activities in your planner as found on the P.A.S.S. calendar.
2. Handouts and assignment sheets will be in a numbered folder in the crate by the front door. Obtain those that you are missing.
3. See me to schedule a time (before or after school) to make up any tests. Tests must be made up within three days of an absence.
See a friend or come in before or after school to obtain the notes missed.

Make-up work must be labeled as such and placed in the wire basket by the door. You will have 3 days from the time you return to complete tests, labs, and assignments.

Help Session Hours: Chemistry Advanced Placement will have free chemistry tutoring sessions weekly. Days and times will be announced. Please come and see me if you need any help with this course!

Attendance: As a student it is your responsibility to be in class every day. You are expected to be on time every day. Students who exceed 10 unapproved absences in a semester will automatically lose credit for the class.

Tardy Policy: All students must adhere to the school-wide tardy policy. If a student is tardy, he/she must sign the tardy sheet or be considered absent.

Student Code of Behavior:

If you act sensibly, responsibly, respectfully, and maturely, you will do fine. The following are guidelines to insure a safe and productive year. Failure to adhere to the code of behavior will result in disciplinary action.

*Enter the room quietly and take your seat. Begin working on the Q.O.D.

1. Have all required materials ready at the beginning of class.
(notebooks, requested materials, homework turned in)
2. Treat everyone in the class in a respectful manner.
-practice patience and compassion.
-use no offensive language.
-allow others the opportunity to speak.
-think before you speak.
3. Respect the property of others.
-school and personal

Respect for people and property is very important and will be stressed in this class!

4. Remain seated in your designated seat until dismissed by me.

5. Listen and follow directions for all activities.
6. Mandatory compliance of all school rules.

Disciplinary Actions Taken by Teacher:

1. Verbal warning
2. Loss of privileges.
3. 30 minute detention after school.
4. Phone call to parent or guardian.
5. Habitual problems will be referred to the Dean.

Citizenship:

Citizenship grades will be earned by the student for their actions during each of the four nine week grading periods.

O = A student that demonstrates exemplary behavior or citizenship. This would include a student that assists other students in being successful. As a student you promote a positive learning environment.

S = A student that demonstrates the proper motivation to be successful. Does not hinder the success of other students in the class.

N and U = A student that creates an environment that makes learning difficult for themselves as well as others.

You can receive an N or U for the following reasons.

1. Dishonesty (cheating on tests or assignments, includes copying)
2. Disrespectful of students, teachers, or substitutes.
3. Four or more tardies.

Citizenship will be awarded based on absences, number of tardies, and participation.

The guidelines for this class will be used for the entire year. The expectations established in this outline are designed to make this a productive, enjoyable, and safe year. As a student you agree to meet, to the best of your abilities, all of the expectations established in this outline. As a parent or guardian you agree to support the expectations in this outline, with the understanding that they are meant to enhance the learning environment of the classroom. These expectations will be kept in the science section of your notebook at all times throughout the year, and should be used as a reference when questions arise. By signing below, you agree to support everything stated in this course outline, and you now know what to expect from this course. I promise this will be a great year!