Chemistry 2 Syllabus

School: *Garfield High*

**Garfield High School**

1255 16th Street • San Diego, CA • 92101

(619) 362-4500 ext. 2205

**Teacher**:  Elizabeth DeRoss

**Contact Information**: edeross@sandi.net

**Course**:  Chemistry 2

**Room**:  205

Course Description:​ This course is aligned with the Next Generation Science Standards and follows the 3-course model for SDUSD. This means that Chemistry content is integrated with earth and space science content. A special emphasis will be placed on developing student literacy and numeracy, as well as inquiry and problem solving skills.

Course Objectives
Upon completion of this course, the successful student will:
1. Understand the role of Chemistry in today’s world.

2. Demonstrate an understanding of some of the social, ethical and legal issues associated with different aspects of Chemistry.

3. Learn and practice safety in the laboratory.

4. Learn and practice the scientific method as an approach to problem solving and further develop the ability to think critically.

5. Be able to access and use a wide variety of information sources, especially in the area of technology.

6. Improve oral, written, numeracy, engineering and communication skills.

7. Demonstrate increased positive interaction in the classroom through collaboration.

8. Apply crosscutting concepts, such as patterns, cause and effect, scale, systems, energy, structure and function, stability and change to different topics in science.

Chemistry 2 Units of Study
Unit/Segment Description of unit
4 Chemical Reactions / Students refine their models of chemical bonds and chemical reactions. They compare the strength of different types of bonds and attractions and develop models of how energy is stored and released in chemical reactions.

5 Chemistry of Climate Change / Students develop models of energy flow in Earth’s climate. They revisit combustion reactions from IS1 to focus on emissions from fossil fuel energy sources. They apply models of the structures of molecules to explain how different molecules trap heat in the atmosphere. Students evaluate different chemical engineering solutions that can reduce the impacts of climate change.

6 Dynamics of Chemical Reactions and Ocean Acidification / Students investigate the effects of fossil fuel combustion on ocean chemistry. They develop models of equilibrium in chemical reactions and design systems that can shift the equilibrium. Students conduct original research on the interaction between ocean water and shell-building organisms.

Supplies:​ INB (Interactive Notebook provided by me), pens, pencils, highlighters.

Quizzes:​ You will be given a quiz at the end of each week covering anything and everything in your INB from that week. Notebook checks will be done daily at the end of each period.

Grading:  Grades in this course will be determined by points.  Example: Total points in couse = 500 points
A   500-450 points
B   449-400 points
C   399-350 points
D   349-300 points
F   299-0 points

All work we do in this class will be kept in your INB (INteractive Notebook).

It displays a variety of work that spans the entire course including labs, projects, multimedia applications, case studies, reading and writing in science, applications of problem solving in science and sometimes, even art.

Each page in the notebook……….10 points

Labs………………………………………….40 points

Quizzes…………………………………….50 points

\*\*​In order to do well in this class you MUST ​​ keep up with your INB and make sure all information is clear and accurate for your INB quizzes at the end of each week.

Tardies and Absences

Students are required to show up on time to class READY TO WORK when the bell rings. Students who are tardy or absent will be responsible for making up any work missed during their absence. The agenda for the day and class activities will be posted on Google Classroom for the student’s convenience. If students miss anything at all, he or she is responsible for making up that work on their own time--NOT during class time, unless otherwise specified by the teacher.

Class Protocols and Guidelines:

As a member of this class, we expect you to be respectful of the room, teachers and fellow classmates. Additionally, plagiarism (copying another person’s work) will result in an F for the assignment with no chance to make it up. All school-wide rules apply. Hats will not be tolerated in class.

Lab Protocols

Safety and respect of school property is required at all times.  Any student that exhibits disruptive behavior at any time will be permanently removed from the lab by the teacher and will receive no credit for the lab.  Student may be referred to counselor and/or VP, depending on the incident.

Bathroom Policy

You will be allowed to use the bathroom one person at a time. You must ask the instructor before you leave class. You must wait 15 minutes after the bell and may not go 15 minutes before the bell.  You will need to take a pass with you.

Food and Drink

You may not have food or drink in the classroom unless I specify that we as a class can have food (potlucks, etc. ). Water is okay. If you have food, I will collect it and give it back to you at the end of the period.

Cell Phones and Earbuds

Cell phones will be kept in the cell phone pocket pouch during the class period. You will place your phone in your designated spot during class time and collect it at the end of the period. Cell phones will not be tolerated in this classroom UNLESS I specify that you can get it out. Earbuds must be out of your ears AND off of your ears during class unless i specify that you can listen to music independently.

Student Accountability Contract and Parent/Guardian Notification

As a student, I, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, will be responsible for:  (print full name)

1. Showing respect to everyone 2. Coming to class on time and prepared to work. 3. Completing all assignments to the best of my ability. 4. Respecting the rights of others to learn without disruption. 5. Showing respect for people and property by not using profanity, stealing or vandalizing. 6. Practicing the rules of the classroom and school 7. Checking my grade early and often via PowerSchool.

DATE: \_\_\_\_\_\_\_
STUDENT SIGNATURE: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
STUDENT EMAIL: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Dear Parent/Guardian,

I am looking forward to working with you and your student to make this a great quarter.  If you ever have any concerns regarding your student’s progress, please do not hesitate to contact me.  Once you have reviewed and discussed this syllabus with your student, please sign and return this sheet.  I encourage you to provide your email address and times of availability so that I can better communicate with you regarding your student’s progress.

Thank you,

Ms. Elizabeth DeRoss

PARENT/GUARDIAN NAME (printed):\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
PARENT/GUARDIAN SIGNATURE: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
PARENT/GUARDIAN PHONE NUMBER: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
PARENT/GUARDIAN EMAIL: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
LANGUAGE PREFERENCE: English\_\_\_\_     Spanish \_\_\_\_    Other: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
OTHER CONTACTS: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_     \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_