Chemistry 1 Syllabus (2019-20)

School: *Garfield High*

**Garfield High School**

1255 16th Street • San Diego, CA • 92101

(619) 362-4500 ext. 2209 Room 209

**Teacher**:  Mrs. Denise Perez

BS in Physiological Science; Minor:English, M.Ed Science and Technology Education

**Course**:  Chemistry 1 (6211)

**Website**: Google Classroom (class code: \_\_\_\_\_\_\_\_\_\_\_\_\_)

**Contact Information**: [dalejandro@sandi.net](mailto:dalejandro@sandi.net)

**Readings:**

*Prentice Hall Chemistry, Newsela, and Science World*

**REQUIRED Supplies**: Scientific notebook, pencils, pens, earbuds, colored pens and highlighters.

**Course Description**:  Chemistry is a college preparatory science course that satisfies one year of the science portion of the A-G requirement. This course is aligned with the Next Generation Science Standards and follows the 3-course model for *SDUSD Chemistry in the Earth System*.  
   
**Course Objectives**

***Upon completion of this course, the successful student will:***

* Understand the role of Chemistry in today’s world, including the current applications to the areas of medicine, engineering, biodiversity, conservation, climate change, environment and the significance of these developments.
* Develop an appreciation for technology and explain the principles that form the basis for this technology.
* Demonstrate an understanding of some of the social, ethical and legal issues associated with some aspects of Chemistry.
* Learn and practice safety in the laboratory.
* Be familiar with the scientific method and think critically.
* Access and use a wide variety of information sources.
* Improve oral, written, numeracy, and communication skills.
* Demonstrate increased positive interaction in the classroom and in small collaborative groups.
* Apply crosscutting concepts, such as patterns, cause and effect, scale, systems, energy, structure and function, stability and change to different topics in science.

**Grading**:  Your academic grade will be determined by the following grading scale:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Grade** | **Percentage Range** |  | **Assignment Category** | **Weight** |
| A | 90-100 | Scientific Notebook | 60% |
| B | 80-89 | Homework | 10% |
| C | 70-79 | Assessments | 10% |
| D | 60-69 | Independent Research Project | 20% |
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| --- | --- | --- |
| **Week #** | **The Course at a Glance** | **NGSS Guiding Questions** |
| **1** | Check-In: Top 3 Contenders \*    Introductions, computer check-out, Google Classroom, Science Safety Contract, syllabus, scientific notebook with table of contents,  Science Safety Test    Weekly Science Notebook Check    Homework: Science in the News 1 | Chemistry in the Earth System    Segment 1 - Combustion    ·         What is energy, how is it measured, and how does it flow within a system?  ·         What mechanisms allow us to utilize the energy of our foods and fuels?  Segment 2 - Heat and Energy in the Earth System    ·         How is energy transferred and conserved?  ·         How can energy be harnessed to perform useful tasks?  Segment 3 - Atoms, Elements and Molecules  ·         What is inside atoms and how does this affect how they interact?  ·         What models can we use to predict the outcomes of chemical reactions? |
| **2** | Key Terms    Weekly Science Notebook Check  Quiz #1 |
| **3** | Background Research Plan Worksheet    Weekly Science Notebook Check |
| **4** | Bibliography    Weekly Science Notebook Check  Quiz #2  Homework: Science in the News 2 |
| **5** | Research Notes  Weekly Science Notebook Check  Midterm |
| **6** | Check-In: Project Type    Weekly Science Notebook Check  Science in the News 3 |
| **7** | Weekly Science Notebook Check  Assessment of Independent Project |
| **8** | Final Project Due  Weekly Science Notebook Check  Multimedia Projects  Extra Credit: Science in the News 4 |
| **9** | Final  Science Notebook due |

 \***Boldfaced Items** are part of the Independent Research Project

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| --- | --- | --- |
| **Week #** | **The Course at a Glance** | **NGSS Guiding Questions** |
| **1** | **Check-In: Top 3 Contenders \***  Introductions, computer check-out, Google Classroom, Science Safety Contract, syllabus, scientific notebook with table of contents,  Science Safety Test  Weekly Science Notebook Check  Homework: Science in the News 1 | **Chemistry in the Earth System**   Segment 1 - Combustion   • What is energy, how is it measured, and how does it flow within a system? • What mechanisms allow us to utilize the energy of our foods and fuels? Segment 2 - Heat and Energy in the Earth System • How is energy transferred and conserved? • How can energy be harnessed to perform useful tasks? Segment 3 - Atoms, Elements and Molecules • What is inside atoms and how does this affect how they interact? • What models can we use to predict the outcomes of chemical reactions? |
| **2** | **Key Terms**  Weekly Science Notebook Check Quiz #1 |
| **3** | **Background Research Plan Worksheet**  Weekly Science Notebook Check |
| **4** | **Bibliography**  Weekly Science Notebook Check Quiz #2 Homework: Science in the News 2 |
| **5** | **Research Notes** Weekly Science Notebook Check Midterm |
| **6** | **Check-In: Project Type**  Weekly Science Notebook Check Science in the News 3 |
| **7** | Weekly Science Notebook Check Assessment of Independent Project |
| **8** | **Final Project Due** Weekly Science Notebook Check Multimedia Projects Extra Credit: Science in the News 4 |
| **9** | Final Science Notebook due |

**Course Completion**:

Completion of either a Biology 1 or 2 credit will be based on a measure of proficiency and completion. Completion of credit will be achieved by satisfying the following requirements: a science journal, formal and informal assessments, homework, classwork and participation and attendance.

**Class Work and Homework Assignments**  
   
*Science Notebook*

You will be required to maintain a scientific notebook for this course. The scientific notebook includes a table of contents, investigations, notes, and reflections. The notebook is graded and must be brought to class **EVERY DAY. Neatness counts! No staples**.

*Independent Research Project*

You will choose a question to investigate and research and ultimately design a project. There is a project timeline and parts of the project that are due throughout the quarter to keep you on track. The independent research project requires time outside of class.

*Assessments (quizzes formal and informal):*

Assessments will be based on the labs, classwork, and homework assigned.  Make-ups will be given only if the absence is excused and must be made-up upon return from the absence (lunch or after school).  There are no make-ups for group assessments.

*Homework*:

You will be assigned homework during this course. It is your responsibility to complete each homework assignment and submit it by the due date. If you do not understand how to complete the assignment, it is your responsibility to ask for help. There are four homework assignments pertaining to Science in the News articles.

*Absences/Late Work*:

When you have an excused absence, you have one day to make-up the class assignment(s). Lab and quizzes must be made-up after school. It**is your responsibility to check to see what was missed and make-up assignments.** Late work will be accepted no later than 1 week after the due date (partial credit). Twelve (12) absences will result in a No Credit (NC) for the course. Three tardies will count as one absence.

*Grades:*

Grades are available using PowerSchool:  <https://powerschool.sandi.net/public>

**Class Protocols and Rules**:

As a member of this class, I expect you to be respectful of the room, teacher 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.**

*Lab Policies*

Students will abide by all classroom rules during any lab assignment.  A Safety Contract, lesson and test will be administered before any lab is performed. Students will be adequately informed and trained in lab procedures prior to lab usage.  Safety and respect for school property are 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.  A student may be referred to a counselor depending on the incident.

*Tutoring*

All students who have questions or are having difficulty are strongly encouraged to come in for help immediately.  Students may come in after school for tutoring with the teacher.

*Leaving Class*

Passes to counselors or nurse will only be issued in emergency situations at the discretion of the teacher. Otherwise, issues requiring your counselor’s assistance or any other adult on campus must be handled outside of class time.

*Bathroom Policy*

You will be allowed to use the bathroom one person at a time. You must wait 30 minutes after the bell and you may not go 10 minutes before the bell.  You will need permission and pass. You are allowed 3 per quarter, no sharing and limited to 5 minutes (or passes will be revoked).

*Technology*

You are NOT allowed to use any electronic devices in the classroom. This includes cell phones, Nintendo DS, ipads/tablets, etc. You will be asked to put your cell phone in a chart at the front of the classroom when class begins and will be able to take it with you at the end of class.    
   
If you are caught using a cell phone the device will be given to Ms. Atlas, the Vice Principal.

EXCEPTIONS:Earbuds/headphones may be needed when using the computer for individual assignments.   
   
*Tardies:*

You will be marked tardy if you are not inside the classroom by the time the bell rings. You will be required to present a pass anytime you are late to class.

**Student Accountability Contract and Parent/Guardian Notification**   
   
As a student, I, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, will be responsible for :

                                   (print full name)

1. Showing respect and cooperating with adults on campus.
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, school and district.
7. Spending time at home reviewing and completing assignments.
8. Checking my grade early and often via PowerSchool.

DATE: \_\_\_\_\_\_\_

STUDENT SIGNATURE:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

STUDENT EMAIL:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

STUDENT CELL PHONE: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

   
Dear Parent/Guardian,

I am looking forward to working with you and your student to make this a great school year.  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,    
   
Mrs. Denise Perez   
   
PARENT/GUARDIAN NAME (printed):\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_   
PARENT/GUARDIAN SIGNATURE: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_   
PARENT/GUARDIAN PHONE NUMBER: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_   
PARENT/GUARDIAN EMAIL:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_   
LANGUAGE PREFERENCE: English\_\_\_\_     Spanish \_\_\_\_    Other:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_   
OTHER CONTACTS: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_     \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_