a-g Chemistry

Section #6044

Lecture Location: Online
a-g Chemistry Lab Locations:
Modesto, Waterford

Instructors: Lanette Lanchester

Email: llanchester@cwcharter.org

Phone: Lanette Lanchester (903)747-2597

Office Hours: Lanette Lanchester Tuesday 3:30-4:30 PM

CWCS's a-g Chemistry online course offers students the opportunity to study at home while employing technology as a learning tool, meeting with other students in a virtual classroom, and receiving live instruction from a teacher. Additionally, students will sign up for a face-to-face lab that will meet once per month. It is Connecting Waters' goal that learning experiences be as accessible as possible. If you anticipate or experience physical or academic barriers based on disability or illness, please let me know immediately so that we can discuss options.

Class Information:

#6044 Class Time: Tuesdays/Thursdays 11:30-12:30 PM

Additionally, there is a required lecture video to be watched each week before coming to class.

- **Semester 1** - First Online Class Meeting
  Last Day to Add or Drop is **9/3/25** (*Students will be charged the full price of the course if dropping the class after this deadline.)*
- **Semester 2** - First Online Class Meeting TBD

Modesto Lab Time: Fridays 10:30-1:30 pm

- **Semester 1** - Four lab meetings: 9/5, 9/26, 10/17, 11/14
  Last Day to Add or Drop is **9/3/2025** (*Students will be charged the full price of the course if dropping the class after this deadline.)*
- **Semester 2** - First Class Meeting TBA

Waterford Lab Time: Friday 3:30 - 6:30pm

Semester 1 - Four lab meetings: 9/5, 9/26, 10/17, 11/14
Last Day to Add or Drop is **9/3/2025** (*Students will be charged the full price of the course if dropping the class after this deadline.)*

- **Semester 2** - First Class Meeting TBA

Union City Lab Time: Thursday 10:30 am - 1:30 pm

- **Semester 1** - Four Lab Meetings
    - Group A: 8/28, 9/11, 10/2, 11/13
    - Group B: 9/4, 9/18, 10/9, 11/20

	Union City Grp A	Union City Grp B	Modesto	Waterford
	Rubina	Rubina	Lanette	Lanette
	CWEB Chem Lab	CWEB Chem Lab	CV Chem	CW Chem
8/28	10:30-1:30			
9/4		10:30-1:30		
9/5			10:30-1:30	3:30-6:30
9/11	10:30-1:30			
9/18		10:30-1:30		
9/26			10:30-1:30	3:30-6:30
10/2	10:30-1:30			
10/9		10:30-1:30		
10/17			10:30-1:30	3:30-6:30
11/13	10:30-1:30			
11/14			10:30-1:30	3:30-6:30
11/20		10:30-1:30		

Last Day to Add or Drop is **9/3/25** (*Students will be charged the full price of the course if dropping the class after this deadline.)*

- **Semester 2** - First Class Meeting TBA

Course Overview: a-g Chemistry is a two semester course.

- **Semester 1**
  - Combustion, Heat, and Energy
  - Atoms, Elements, and Molecules
  - Understanding Chemical Reactions
- **Semester 2**
  - The Chemistry of Climate Change
  - The Dynamics of Chemical Reactions and Ocean Acidification

All tests and assignments will be posted in the course calendar in Canvas. This is an advanced course and requires that students study every day.

Please note that this class needs a lab. You are automatically assigned the lab on your own campus.

Please note: *The pacing guide is subject to change. Any change will be posted in the Canvas calendar and/or homepage. Students enrolled in the course should be checking the Canvas homepage for up-to-date and detailed assignments.*

Curriculum: *Required curriculum may be available at the Learning Center on a first come basis. If needed, ESs can order curriculum using the OPS catalog which will have the most up-to-date pricing. Students will need:*

Experience Chemistry in the Earth System Volume 1 Student Edition ISBN 418306800 $22.97

Experience Chemistry in the Earth System Volume 2 Student Edition ISBN 418306983 $22.97
Teacher's Edition Volume 1 ISBN 1418306991 $91.47
Teacher's Edition Volume 2 ISBN 1418307009 $91.47

Materials:

- Working external headset with mic (computer speakers do not work successfully with the Canvas setup). Plug-in headsets (rather than Bluetooth) work best with Jigsaw. After the third week of class and no headset, students may begin to lose participation points for the class. Class is much more engaging if all students can talk in class using their mic. Suggested: Office Depot Logitech Clear-Chat
- Binder Paper
- 1" Binder
- Pencils & Erasers
- Colored pencils
- Composition Notebook
- Scientific Calculator

Requirements:

- Class textbook/workbook
- Gmail Account and ability to open/create word documents and pdfs (Adobe Acrobat Reader)

- Reliable Internet access
- Canvas Login link

Grading: *Students will be graded on attendance, daily homework assignments, module assessments, and labs.*

.

Overall course grade:

20% Attendance/Participation

20% Daily Homework

20% Tests & Quizzes

20% Labs

20% Final Exam

Grading Scale:

90% and above	A
80%-89%	B
70%-79%	C
60%-69%	D
below 60%	F

Attendance: Attendance is required. The Truancy Policy applies to Canvas courses. An unexcused absence may be counted as a truancy.

- **Excused Absence** is defined as:

  The parent shall notify the teacher by phone of the absence at least 24 hours* prior to the time the class meets.
- **Unexcused Absence** is defined as:

  An absence that does not go with a parent phone call to the instructor at least 24 hours* prior to the time the class meets.

*If there are extenuating circumstances that do not allow for at least 24 hours, then the teacher must still be notified prior to the start of class; allowances may be made depending on the circumstances. Examples of extenuating circumstances: car accident, sudden illness, etc. Students should arrange a "back up plan" in case of unexpected computer problems the day of the class (i.e., plan to go to a neighbor, friend, relative, library, etc.)

When students are absent, they must contact the instructor via email or contact another classmate to obtain the homework assignment.

Absent/Late Work:

TESTS: Late work will not be accepted after the Test due date unless I am notified of a special circumstance.

Assignments: Everyday an assignment is late, the grade is reduced by 1%. Lowest possible grade is 80% of the percentage scored. At 21 days late it is a permanent 0.

Weekly assignments will include:

- Weekly Reading & Notes

- Class attendance & participation
- Weekly Assignment * Please see the instructions below for Parent Educator Instructions & Grading
- Weekly Progress Quiz
- Weekly learning Journal Submission

All homework will be submitted through Canvas. You can submit a Word document, PDF or Google Doc (download as a PDF and upload to Canvas). Emailed assignments will not be accepted. All communication will be made through Canvas' email feature.

Attendance & Participation

You are expected to watch a flipped video lecture and complete the video quiz each week before attending class. This is worth 5% of your overall class grade. You are expected to attend class and participate in group discussions and activities weekly. This will be 5% of your final grade. The other 10% of your participation grade will be based on your weekly Learning Journal. Every week you will submit a journal entry about something you learned, found interesting, surprised you, enjoyed, disliked. Then you will comment on at least one other classmate's journal entry.

Homework overseen by the Parent Educator

The weekly reading and weekly assignments will be overseen and graded by the parent educator. This will make up 20% of the student's course grade. Students will complete their assignments right in their science notebook and complete weekly comprehension and vocabulary assignments. The Parent Educator will grade these assignments and will submit these assignments

through your ES twice each semester. However, it is the Parent Educator's job to make sure your student does not fall behind on his/her reading and assignments. The results will show up in weekly quizzes and tests.

Weekly Progress Quizzes

Did you know that it has been scientifically proven that we learn more from our wrong answers than our correct answers? The weekly progress quizzes are a tool to help you test your understanding, and help you get an easy 100. You may take weekly quizzes as many times as you need until you get a 100! Quizzes will be open for 1 week. Wrong answers will give you feedback and extra videos or articles to help deepen your understanding. When the assignments close, I will post your last grade.

Summative Tests - open notes

Tests must be completed within a 48-hour time frame. This is NOT a group project. Summative tests are testing your own learning development. You may not work with anyone else. You may not use the internet. BUT a good scientist keeps a good, organized notebook. So, you may use your notes. Be sure to take excellent notes with a few examples. As you take your progress quizzes and find areas that you need to deepen your learning, use your notebook. Organize your notes according to topic. Be sure to include all vocabulary.

Labs

Your lab grade will make up 20% of your overall grade. It is essential that you come to class prepared or you will not be able to participate. Labs require closed toed shoes, long pants, no loose clothing or dangling jewelry, and long hair restrained. These are long labs (3 hours) so eat before you come to class. Food and drink are NOT allowed in the science lab. Usually there will also be a pre lab that will need to be completed before you come to class. This ensures safety of you and your classmates as well as a productive exciting learning experience.

Final Exam (& Project?)

The final exam is a proctored exam held on campus. I could add a project to the syllabus as part of this 20% as well. I have not decided on what this should be, but projects are my favorite way of demonstrating learning. I will involve the students in this decision-making process as well as watch what opportunities are available both for the winter and spring semesters.

Additional Resources:

Key Dates 25/26

- August 11, 2025 - First day of school
- August 18, 2025 - First day of Canvas classes
- September 1, 2025 - Labor Day
- October 23-24, 2025 - Non-School Days
- November 11, 2025 - Veterans Day
- November 21-28, 2025 - Thanksgiving Break
- December 19, 2025 - Last Day of Semester 1
- January 6, 2026 - First Day of Semester 2
- January 12, 2025 - First day of Canvas classes
- January 19, 2025 - MLK Day
- February 13 & 16, 2026 - Presidents Day
- March 20-27, 2026 - Spring Break
- April 13-17, 2026 - Likely CAASPP (tentative)
- May 22, 2026 - Last Day of School

I

Accessing Canvas

Google Apps for Education Permission Form (GAFE Form): This must be submitted to gafe@cwcharter.org for the student to receive an email account and access to Google.

- **Logging into Canvas**

Login address: cwcs.instructure.com

Email is School email: DistrictID@cwcharter.org (i.e.12345@cwcharter.org)

Password: First name District ID (Capitalize name, no spaces, i.e., Jared12345)

Student Training Course

All students are encouraged to enroll in our Student Training Course: Passport to Canvas here or go to Quick Start Guide for Students

- **Parent Observers in Canvas**

Observer Role for ESs and parents: This role allows you to see what your student is working on, what is coming up due, and their current grades.

Click here for more information!

- **Need Help?** Email canvashelp@cwcharter.org. Please include your name and the name of the class along with a complete description of the issue.

Final Exams and/or Final Project

All students enrolled in a-g and general courses, whether PLS (Independent Study or Portfolio Review) or CMS (Canvas or Resource Center), must take a proctored final exam or significant final project at the end of each semester. A-g Course finals will be proctored at a test site; general finals will be proctored by the parent or ES.

Note: a-g Math and science courses must have a proctored final both semesters: no projects. General science may complete a project one semester. CTE courses are project based and are an exception; please check with the instructor.

- **A-G Finals - For** all department EEs and portfolio review EEs, these exams must be proctored.
- **General Finals -** These exams may be proctored by the parent. Students taking general Canvas classes will take the final in class.
- **Final Projects** - Consult with your EE, if applicable, about the final project.

Responsibilities

- **ES Responsibilities**

1. Please make sure a headset with mic is ordered early in the semester and given to the student prior to the 3rd class.
2. Please sign up as an Observer role in each of your students' classes. This role allows you to see what your student is working on, what is coming up due, and their current grades. Click here for more information!
3. Remind your parents/students:
    a. If this is their first Canvas experience, they need to complete the Student Training Course with their student.
    b. Parents should check each Canvas course weekly for announcements, changes in class meeting dates or changes in due dates for students' assignments.
    c. The parent is encouraged to sign up as an "Observer" in the class.
4. Initiate contact with EE at the beginning of the year to be sure they have your correct e-mail address and work phone number, and to be sure they have a current number where your student can be reached and email if available.
5. Read or save the class syllabus and pacing guide and email the syllabus to your students. **Go over the syllabus and pacing guide with your student at your first or second learning record meeting of the semester.**
6. Grade daily work assignments, if required by the online instructor: done by parent or ES (if AESS).

7. Complete quarterly progress survey found here: Progress Reports Surveys for EE Canvas Courses & PRs. These reports make up 20% of the student's grade.
8. Contact EE if a student is dropping the course or having any difficulties. **Per school policy, students receiving C's, D's or F's will be reported to the Waterford Office.**
9. The Paperwork Timetable lists the last date to add or drop a class for each semester, and students cannot drop after this date without Advisor and Executive Director approval. If a student is removed from class prior to this date, then there will be no charge to the instructional funds.
10. Contact the instructor if a student is dropping the course, or having difficulties understanding assignments or submitting homework, quizzes, tests, or essays online.
11. Routinely (at the minimum at each learning record meeting) check Canvas for announcements and student's weekly assignments, student grades or missing assignments or have student login and show you his/her grades.

Be sure to review the following document:Student and ES Responsibilities in Canvas Online Classes

Review the following document: Parent Responsibilities:

12. These courses are core supplemental and the parent is still the primary teacher and responsible for grading the homework assignments (unless the student is receiving AESS services).

13. Prior to the first day of class, help students in logging on to https://cwcs.instructure.com/login/canvas, accept invitations to class if needed, and familiarize them with the format of Canvas.
14. View a Canvas orientation video provided by the instructor and complete the Canvas orientation course.
15. Go through the **Student and Family Training Course** before the first day of class.
16. Be sure your student is attending class weekly.
17. Notify the instructor in advance if your student must miss a session.
18. If a class is missed, make sure your student watches the class recording and completes the assigned homework.
19. Monitor student's behavior during class to ensure they are staying on task.
20. Observer Role for ESs and parents: This role allows you to see what your student is working on, what is coming up due, and their current grades.

Click here for more information!

21. Check your student's grades in Canvas and notify the instructor if there is a question about a grade or missing assignment.
22. Routinely check Canvas for announcements and weekly assignments.

Student Responsibilities:

23. If this is your first Canvas online class, go through the **Student and Family Training Course** before the first day of class.

24. Attend each class's orientation session and complete the Canvas orientation course.
25. Log on to Canvas and sign up as a class member and accept any invitations to join classes. **Make sure your correct email is available in Canvas**.
26. Your school email is used for communication in Canvas. Please confirm that you have an active school email account (district ID number @cwcharter.org; i.e. 12345@cwcharter.org). A personal email or phone number can be added for more timely notifications.
27. Adjust notification settings to ensure that you are receiving all necessary information.
28. Have a working headset and be prepared to use it.
29. Each student comes prepared for class and is willing to participate and learn with correct materials. This assures that they receive full credit for attendance/participation in the class, and that they will not miss important student/teacher/peer interaction.
30. Each student should print or save to their computer their syllabus/pacing guide, and refer to the Canvas homepage each week to plan their schedules. Students should be aware in advance of the dates and times of their classes and assignments.
31. Check Canvas each week for announcements, assignments, and your grade for accuracy. Immediately notify the instructor if a discrepancy is found.
32. Attend the online class every week **and be on time**. Many instructors deduct points for tardiness. If you must miss a session, please email the instructor prior to missing class for the opportunity to earn full credit with make-up work. If you must miss class, it is your responsibility to contact the instructor to obtain makeup work. For full credit, make up work must be turned in per the instructor's guidelines in the class syllabus.

33. **Students will need to turn in assignments on time.** Please consult the class syllabus regarding your instructor's policy on missing assignments. Complete any assigned essays, workbook pages, additional assignments, quizzes, midterm, and final by the due date. Assignments will vary per instructor.
34. Any assignment posted on Canvas, or sent via email **Must Be Saved** as a document on their computer, or as a hard (print) copy, until the end of the semester to avoid any technical difficulties. Complete and submit all assignments, projects, essays, and quizzes on or before the due date.
35. Homework assignments will be reviewed by your ES and reported quarterly to the instructor. It will make up 20% of the final grade.
36. Follow the links to access and read the CW Code of Conduct Policy, Bullying, Plagiarism & Truancy policies. **School Policies**

School Policies

CWCS Attendance Policy: Excerpt from Truancy Policy:

A school appointment may be defined as learning record meetings, classes, tutoring, testing days, PLT/504/IEP meetings, and Contract Program Classes (including Canvas and Resource Center courses) for grades TK-12 in English, English Learner, Math, Science, Social Science, VPA and Foreign Language. The parents/guardians or adult students must give at least 24 hours' notice for any cancellation or change of appointment except in case of an emergency. An emergency would be considered something like a car accident, sudden illness, or other types of tragic events that prevent a person from being able to keep their appointment or give a 24-hour notice.

The truancy policy applies to school appointments, which may be defined as classes, testing days and classes. Contract Programs courses (including CWCS HQT online courses). An unexcused absence will be counted as a truancy.
-**Excused Absence** is defined as:
The parent shall notify the teacher by phone of the absence at least 24 hours* prior to the time the class meets.
-**Unexcused Absence** is defined as:
An absence that does not go with a parent phone call to the instructor at least 24 hours* prior to the time the class meets.
*If there are extenuating circumstances that do not allow for at least 24 hours, then the teacher must still be notified prior to the start of class; allowances may be made depending on the circumstances. Examples of extenuating circumstances: car accident, sudden illness, etc. Students should arrange a "back up plan" in case of unexpected computer problems the day of the class (i.e., plan to go to a neighbor, friend, relative, library, etc.)

CWCS Online Code of Conduct Policy:

The following guidelines apply to all students and parents. Failure to comply will result in dismissal from online courses and/or suspension as deemed appropriate by the school administration.

If you see any violations of these guidelines, please contact your online instructor or the school office at 209-874-1119 x 6

- Respect student privacy by not sharing student names nor posting/commenting publicly about any student.
- Problems or concerns about your child should be discussed privately with the teacher, not publicly on online platforms.

- Canvas tools are meant for student use and, although parents are encouraged to watch over the shoulder of their child's first meeting, ongoing participation/observation should be approved by the instructor. Parents are encouraged to enroll as Observers in Canvas classes to have access to assignments and grades.
- Use your own username and password. Do not give these to anyone.
- Do not aid anyone in getting unauthorized access to online platforms.
- Do not post your or anyone else's personal contact information except with the approval of the instructor.
- Do not post messages that were sent to you privately.
- Insults or attacks of any kind against another person are prohibited.
- Use of obscene, degrading, or profane language is prohibited.
- Once the class begins there is no chatting except with the approval of the instructor.
- Do not sign into the session more than 10 minutes prior to the beginning of class unless it's your first time logging on. Your instructor may grant an exception.
- All students are expected to conduct themselves with a high degree of integrity. Cheating and plagiarism are not acceptable. Instances of cheating and plagiarism include but are not limited to: cheat or crib notes, looking at & using other student's answers or work, copying homework, class work, or tests, and doing another student's work. Copying or paraphrasing work from the Internet, book, magazine, newspaper, song or other sources without properly citing sources is prohibited. When using facts that are not generally known, statistical data or copying maps, charts or graphs without using the author's name and a bibliography is also prohibited.

- Student papers may be turned into “Turn it in.com” or another source that will instantly identify unoriginal material. **Students caught cheating or plagiarizing are subject to an “F” or “Zero” on the assignment or test, an “F” grade for the class, and/or suspension as considered appropriate by school administration.**

Cheating and Plagiarism Policy

All students are expected to conduct themselves with a high degree of integrity. Cheating and plagiarism are not acceptable behaviors at CWCS. Instances of cheating and plagiarism include but are not limited to: cheat or crib notes; looking at and using other students’ answers or work; copying homework, class work, or tests; and doing another student’s work. Copying or paraphrasing work from the Internet, from a book, a magazine, a newspaper, a song, or other sources without the proper citing of sources is prohibited. Using facts that are not generally known or statistical data, or copying maps, charts or graphs without using the author’s name and a bibliography, is also prohibited. ESs, tutors, course instructors, and the school counselor have the option of using an Internet evaluative tool that will instantly identify plagiarized material. **Students caught cheating or plagiarizing are subject to an “F” or “Zero” on the assignment or test, an “F” grade for the class, and/or suspension, as considered appropriate by the school administration.**

Civility Policy

Approved: August 20, 2018

It is the policy of Connecting Waters Charter Schools that all school personnel, staff, students, and students' parents are required to be civil in all their interpersonal school-related interactions.

Civility does not require an unqualified agreement or conformity of opinion. Under no circumstances will un-civil conduct at any school-related activity be tolerated.

For purposes of this policy, to be civil means to act with self-discipline in a courteous, respectful and orderly manner in every interpersonal communication and behavior. It also means that a person will treat other people as he or she would like to be treated.

Un-civil conduct includes, but is not limited to:

- using an inappropriately loud voice;
- using profane, vulgar, or obscene words or gestures;
- belittling, jeering, or taunting; using personal epithets;
- using violent or aggressive gestures or body-language;
- repeatedly and inappropriately interrupting another speaker;
- repeatedly demanding personal attention at inappropriate times;
- purposefully and inappropriately invading personal space;
- purposefully ignoring appropriate communications;
- wrongfully interfering with another person's freedom of movement;
- wrongfully invading another person's private possessions; or,
- any other behavior that inappropriately disrupts school-related activities.

An expression of disagreement or a discussion of a controversial viewpoint is not uncivil if such expression or discussion is appropriately presented and does not disrupt a school-related activity.

Any school personnel who are un-civil shall be subject to disciplinary action. Any student that is un-civil shall be subject to an administrative hearing and review for expulsion or dismissal.
In the event that any student's parent is un-civil during a school-related activity, school personnel to whom the un-civility is directed shall immediately tell the parent to communicate or act civilly. If the parent fails to correct the un-civil behavior as directed, the affected school personnel shall notify the parent that the school activity is immediately terminated for them and their student(s), and the affected school personnel shall refer the matter to school administrative personnel for further administrative or legal action, which may include, but may not be limited to, a prohibition from any further participation in school-related activities.

Title IX, Harassment, Intimidation, Discrimination, and Bullying Policy (PDF)

Pacing Guide

Please note: *The pacing guide is subject to change. Any change will be posted in the Canvas calendar. Students enrolled in the course should be checking the Canvas homepage for up-to-date and detailed assignments.*

Week	Section	Attendance Participation 20%	Homework 20%	Quizzes & Tests 20%	Labs 20%	Final Exam & Project 20 %
Week 1	❑ Introduction to Chemistry ❑ Introduction to Energy	❑ Meeting Attendance ❑ Tuesday Video Quiz ❑ Weekly Learning Journal Entry & Discussion	❑ Read Pg 4-13 ❑ Assignment ❑ Quizlet	Progress Quiz		
Week 2	❑ Modeling Energy ❑ Modeling Conservation of Mass	Meeting Attendance Tuesday Video Quiz Weekly Learning Journal Entry & Discussion	❑ Read 14-33 ❑ Assignment ❑ Quizlet	Progress Quiz		
Week 3	❑ Manifestations of Energy	Meeting Attendance	❑ Read 34-63 ❑ Assignment ❑ Quizlet	Safety Quiz 100% required		Lab 1 Safety

	❑ Mechanisms of Heat Flow ❑ Thermal Equilibrium ❑ Summative Test ❑ Pre Lab Safety	Tuesday Video Quiz Weekly Learning Journal Entry & Discussion		Summative Test		Matter Transformation in Combustion
Week 4	❑ Heat Flow within the Earth ❑ Plate Tectonics	Meeting Attendance Tuesday Video Quiz Weekly Learning Journal Entry & Discussion	❑ Read 64-97 ❑ Assignment ❑ Quizlet	Progress Quiz		Thermal Energy and Heat Transfer Introduction to Electromagnetism
Week 5	❑ Modeling Atoms ❑ Atomic Emission Spectra and the Bohr Model	Meeting Attendance Tuesday Video Quiz Weekly Learning Journal Entry & Discussion	❑ Read 98-115 ❑ Assignment ❑ Quizlet	Summative Test		
Week 6	❑ Modern Atomic Theory ❑ Electrons in Atoms	Meeting Attendance Tuesday Video Quiz	❑ Read 116-129 ❑ Assignment ❑ Quizlet	Progress Quiz		Lab #2 Evaluate Atomic Structure with

		Weekly Learning Journal Entry & Discussion				Flame Test
Week 7	❏ The Periodic Table: An Overview ❏ Periodic Table and Atomic Structure ❏ Periodic Trends	Meeting Attendance Tuesday Video Quiz Weekly Learning Journal Entry & Discussion	❏ Read 130-153 ❏ Assignment ❏ Quizlet	Progress Quiz		Atomic Spectra with Spectrum Tubes
Week 8	❏ Ionic Bonds ❏ Metallic Bonds	Meeting Attendance Tuesday Video Quiz Weekly Learning Journal Entry & Discussion	❏ Read 154-168 ❏ Assignment ❏ Quizlet	Summative Test		
Week 9	❏ Covalent Bonds ❏ Intermolecular Attractions	Meeting Attendance Tuesday Video Quiz	❏ Read 169-184 ❏ Assignment ❏ Quizlet	Progress Quiz	Lab3 Section Union city	

		Weekly Learning Journal Entry & Discussion				
Week 10	❑ **Names and Formulas of Compounds**	**Meeting Attendance** **Tuesday Video Quiz** **Weekly Learning Journal Entry & Discussion**	❑ **Read 185-195** ❑ **Assignment** ❑ **Quizlet**	**Progress Quiz**		
Week 11	❑ **States of Matter** ❑ **Modeling Phase changes**	**Meeting Attendance** **Tuesday Video Quiz** **Weekly Learning Journal Entry & Discussion**	❑ **Read 198-223** ❑ **Assignment** ❑ **Quizlet**	**Progress Quiz**		
Week 12	❑ **Comparing Ionic & Molecular Compounds**	**Meeting Attendance** **Tuesday Video Quiz**	❑ **Read 224-235** ❑ **Assignment** ❑ **Quizlet**	**Summative Test**		

	❑ Comparing Metals and Nonmetals ❑ Summative Test	Weekly Learning Journal Entry & Discussion				
Week 13	❑ The Mole Concept ❑ Molar Relationships	Meeting Attendance Tuesday Video Quiz Weekly Learning Journal Entry & Discussion	❑ Read 262-279 ❑ Assignment ❑ Quizlet	Progress Quiz		
Week 14	❑ Percent Composition and Empirical Formulas ❑ Concentrations of Solutions	Meeting Attendance Tuesday Video Quiz Weekly Learning Journal Entry & Discussion	❑ Read 280-301 ❑ Assignment ❑ Quizlet	Summative Test		

Week 15	❏ Modeling Chemical Reactions ❏ Predicting Outcomes of Chemical Reactions	Meeting Attendance Tuesday Video Quiz Weekly Learning Journal Entry & Discussion	❏ Read Pages 304-328 ❏ Complete Workbook pages 304-328 ❏ Quizlet	Semester Review Quiz		
Finals Week 16 a-g finals		❏	❏ ❏			Semester 1 Final Exam
Week 19	❏ Water and Aqueous Systems	❏	❏ 236-259 ❏ Assignment ❏ Quizlet	Progress Quiz		
Week 20	❏ Reactions in Aqueous Solution	Meeting Attendance Tuesday Video Quiz	❏ 315-337 ❏ Assignment ❏ Quizlet	Progress Quiz		

		Weekly Learning Journal Entry & Discussion				
Week 21	❑ **Quantifying Reactants and Products** ❑ **Chemical Calculations**	**Meeting Attendance** **Tuesday Video Quiz** **Weekly Learning Journal Entry & Discussion**	❑ **338-356** ❑ **Assignment** ❑ **Quizlet**	**Progress Quiz**		**Target Lab Properties of Aqueous Solutions**
Week 22	❑ **Limiting Reagent and Percent Yield** ❑ **Summative Test**	**Meeting Attendance** **Tuesday Video Quiz** **Weekly Learning Journal Entry & Discussion**	❑ **357-367** ❑ **Assignment** ❑ **Quizlet**	**Summative Test**		

Week 23	❑ Energy in Chemical Bonds ❑ Enthalpies of Formation and Reaction	Meeting Attendance Tuesday Video Quiz Weekly Learning Journal Entry & Discussion	❑ 369-378 ❑ 379-386 ❑ Assignment ❑ Quizlet	Progress Quiz		
Week 24	❑ Enthalpy in changes of State	Meeting Attendance Tuesday Video Quiz Weekly Learning Journal Entry & Discussion	❑ 387-395 ❑ Assignment ❑ Quizlet	Summative Test		
Week 25	❑ Earth's Surface systems ❑ Water and Energy in the Atmosphere	Meeting Attendance Tuesday Video Quiz Weekly Learning Journal Entry & Discussion	❑ 4-27 ❑ Assignment ❑ Quizlet	Progress Quiz		

Week 26	❑ Atmospheric System Feedbacks	Meeting Attendance Tuesday Video Quiz Weekly Learning Journal Entry & Discussion	❑ 28-37 ❑ Assignment ❑ Quizlet	Progress Quiz		
Week 27	❑ Long-Term Climate Factors ❑ Short Term Climate Factors	Meeting Attendance Tuesday Video Quiz Weekly Learning Journal Entry & Discussion	❑ 38-59 ❑ Assignment ❑ Quizlet	Summative Test		
Week 28	❑ The Chemistry of Earth's Atmosphere ❑ Evidence of Climate Change	Meeting Attendance Tuesday Video Quiz Weekly Learning Journal Entry & Discussion	❑ 62-76 ❑ Assignment ❑ Quizlet	Progress Quiz		

Week 29	❏ Anthropogenic Carbon Emissions ❏ Climate Models	Meeting Attendance Tuesday Video Quiz Weekly Learning Journal Entry & Discussion	❏ 77-94 ❏ Assignment ❏ Quizlet	Progress Quiz		
Spring Break	❏		❏			
Week 30	❏ Consequences of Climate Change ❏ Response to climate Change	Meeting Attendance Tuesday Video Quiz Weekly Learning Journal Entry & Discussion	❏ 95-117 ❏ Assignment ❏ Quizlet	Summative Test		
Week 31	❏ Rates of Reactions	Meeting Attendance Tuesday Video Quiz	121-143 ❏ Assignment ❏ Quizlet	Progress Quiz		

	❑ Progress of Chemical Reactions ❑ Reversible Reactions and Equilibrium	Weekly Learning Journal Entry & Discussion				
Week 32	❑ Acids, Bases, & Salts ❑ Reactions of Acids and Bases	Meeting Attendance Tuesday Video Quiz Weekly Learning Journal Entry & Discussion	145-165 ❑ Assignment ❑ Quizlet	Progress Quiz		
Week 33	❑ Buffers and Equilibria 2 days ❑ Ocean pH levels ❑ Ocean as a Carbon Sink	Meeting Attendance Tuesday Video Quiz Weekly Learning Journal Entry & Discussion	166-181 ❑ Assignment ❑ Quizlet	Semester Review Quiz		
	❑ The Ocean and Climate Change	Meeting Attendance	190-204 ❑ Assignment ❑ Quizlet			

Week 34	❑ **Ocean Acidification**	**Tuesday Video Quiz** **Weekly Learning Journal Entry & Discussion**				
Week 35	❑					
	❑					
Week 36 Finals Week						**Semester 2 Final Exam**

Chemistry Labs:

Instructional Segment 1 Combustion, Heat & Energy

Lab session #1
Lab Safety
Energy Densities of Organic Fuels
Measure Energy Flow in Chemical Reactions
Thermal Energy and Heat Transfer

Instructional Segment 2: Atoms Elements, and Molecules

Lab session #2
Evaluate Atomic Spectra
Model Electron Configuration
Develop a Periodic Table

Lab Session #3
Characteristics of Ionic Bonds
Investigate Covalent Bonds
Melt Ionic and Covalent Compounds
Chemical Names and Formulas

Instructional Segment 3 Understanding Chemical Reactions

Lab Session #4
Describe Small-scale Matter Using the Mole
Percent Composition
Determine an Empirical Formula

Lab Session #5
Mole Ratios
Aqueous Solutions
Measure the Energy of a phase Change

Lab Session #6
Evaluate Chemical Reactions
Types of Chemical Reactions
Determination of Reaction Output
The Thermodynamics of Hand Warmers
Hess's Law and the Combustion of a Metal
Measuring the energy of a phase change

Instructional Segment 4: The Chemistry of Climate Change

Lab Session #7
How Melting Ice Affects Sea Level
Human Activity and Carbon Emissions
Solar Cell Technology
Reaction Rates: Iodine Clock

Instructional Segment 5: The Dynamics of Chemical Reactions and Ocean Acidification

Lab Session #8
Titrations
Titrations- The Study of Acid-Base Chemistry
The pH of Seawater
The Fate of Carbonate in Acidifying Oceans