

Course Outline
General Chemistry
Citrus Valley High School

Instructor: Dr. Stover

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Classroom: E144

Ext#: 35544

Letter to Parent(s)/Guardian:

Welcome to Chemistry. My name is Dr. Stover and I will be your son's/daughter's Chemistry teacher this year. I am delighted to have your student in my class. I plan to help all my students acquire a deep and rich understanding of chemistry and of its real-life application around them. I want to teach them the knowledge and skills they need to gradually transition from school work to real world work in order to become responsible young adults. I am looking forward to working with you to make this school year an excellent learning experience for your student.

About Chemistry: Chemistry is a college preparatory science course. Because the study of chemistry is an abstract subject, students may feel a greater sense of anxiety than in previous high school course work. Many students feel overwhelmed and find it difficult to keep up. It is essential that students attend class every day and arrive on time and prepared. Students should be studying **every night** whether or not a specific assignment has been given.

Course Textbook: Modern Chemistry by Sarquis and Sarquis

Additional Resources: ChemQuest
POGIL

Online Resources: dosctover.org (class website)
sciencegeek.net (interactive review)
Khan Academy
CK-12
Ed: Your Friend in Learning

Required Materials: Five-Subject Spiral Bound Notebook
Dark blue or black pens, #2 pencils
Highlighter (any color)
Red Pens
Loose leaf paper
Scientific Calculator
Elmer's Glue Sticks

Class Rules: Department, school, and district rules and procedures are strictly enforced in the classroom and campus at all times.

1. All students are expected to follow the school-wide classroom policies.
2. Be on time to class. You must be in the room and in your seat at the time the bell rings.
3. Bring required materials daily.
4. Respect other students, the teacher, aides, and the classroom environment as a whole.

- If any student persists in the inhibition of the learning of other students, he/she will be removed from the class.

-Please keep all music devices, cellular phone and other electrical devise

-There is no grooming in the classroom, items will be confiscated.

5. Please follow teacher's directions and exhibit an on-task behavior
-Students must know and shall follow correct laboratory safety procedures.
6. Absolutely no cheating.

-**Any form of talking** during a test is considered cheating.

Those who violate this rule will automatically get zero and will be held accountable to the fullest extent.

Grading System: Grades are calculated as an average of total points earned over points as follows:

Assessment (unit or chapter tests)	45%
Classwork (quizzes, labs, class participation, projects,)	20%
Interactive Notebook (INB)	25%
Final Exams =	10%

An overall grade from:

100%-98% is an A+; 97%-94% is an A; 93-90% is an A-;

89%-87% is a B+; 86%-84% is a B; 83%-80% is a B-;

79%-77% is a C+; 76%-74% is a C; 73%-70% is a C-; 69%

and below is a non-proficient grade.

Interactive Notebook (INB): All notes with accompanying videos are posted on the class website. Students will create their own notes on their spiral notebook. They will be graded on the posted due date with a stamp. **NO LATE NOTES. After a week that the INB is not turned in, a grade of zero will be given.**

Absences

Daily attendance is essential because each lesson is important in understanding succeeding lessons. For excused absences, students will be given **one day** to complete work missed. After that day, **late work gets half a credit. After the first week, late work will not be accepted and will get a grade of zero.** Weekly calendar will be

provided on the class website and in class so that students don't fall behind. Everyone is expected to come prepared for the class.

Assignments: All assignments must contain a title, name, date, and period in the heading. Homework will be due the following day unless otherwise specified and will be stamped. **Late work automatically gets half a credit. After a week that a homework is not turned in, a grade of zero will be given.**

Test and Quizzes: Quizzes will be given periodically and may be announced or unannounced to check for progress. Unannounced quizzes will be taken with open notes. **It is the responsibility of the student to get the notes that were missed during an absence (they are posted on the class website.)** Unit tests are given at the end of each unit/chapter. Quizzes may or may not be made up. **After a week that a quiz/test is not made up, a grade of zero will be given.**

Lab: Format for writing lab reports must be followed at all times. They are due at the end of each lab, or when specified. Due to the nature of labs, it is extremely important that you be here on lab days. Labs involve chemicals and equipment that may be available on lab days only.

Project: A major project (either per individual or as group) may be assigned at least once a semester if time permits.

Make-up Work: It is the responsibility of the student to obtain assignments missed due to **excused absences**. **Unexcused absences or truancy** will not be given the opportunity to make up **unless cleared by attendance**. All assignments and class work are posted on the website. Make-up homework is due a day after the student returns to class following an absence. **Late work automatically gets half a credit After a week that a work is not made up, a grade of zero will be given.**

Lab Make-up: To make up missed lab, the students must find and read one chemistry related article related to the missed lab and write a one page summary of the article. **This is due within the week of the missed lab. Late work automatically gets half a credit. After a week that a lab is not made up, a grade of zero will be given.**

Extra Credit Work: Some extra credit work will be available throughout the year. Options will be discussed at a later date. **Students must have all required assignments completed before working on extra credit.**

Schedule

This is the planned schedule for the year. It may or may not work depending on school activities that day. Otherwise, the test dates are set for your planning purposes. Use the resources available to you.

First Semester

Unit	Topics	Unit Test	Resources to Use
1	Combustion <ul style="list-style-type: none">• Introduction to Chemistry• Matter and Its Properties• Scientific Method• Units of Measurement• Using Scientific Measurements Labs/Activities <p>Combustion Lab Measure, Measure, Measure Soda Density Lab</p>	TBA	Modern Chemistry: Chapter 1 (Section 1.1 and 1.2) Chapter 2 Chapter 8 (Section 8.1) Chapter 16 (Section 16.1) Worksheets: ChemQuest POGIL Online: Class website pHet simulations Ed: Your Friend in Learning
2	Atoms <ul style="list-style-type: none">• Atomic Theories• The Structure of the Atom• Counting Atoms• The Development of New Atomic Model• The Quantum Model of the Atom• Electron Configurations• History of the Periodic Table• Electron Configuration in the Periodic Table• Electron Configuration and Periodic Properties• The Nucleus• Radioactive Decay• Nuclear Radiation Lab/Activities: <p>M & M Model of the Atom</p>	TBA	Modern Chemistry: Chapter 3 Chapter 4 Chapter 5 Chapter 21 Worksheets: Class website ChemQuest POGIL Online: pHet simulations Ed: Your Friend in Learning

3	<p>Chemical Reactions</p> <ul style="list-style-type: none"> • Introduction to Chemical Bonding • Covalent Bonding and Molecular Compounds • Ionic Bonding and Ionic Compounds • Metallic Bonding • Molecular Geometry • Chemical Names and Formulas • Oxidation Numbers • Using Chemical Formulas • Determining Chemical Formulas • Describing Chemical Reactions • Types of Chemical Reactions • Activity Series of the Elements • Introduction to Stoichiometry • Ideal Stoichiometric Calculations • Limiting Reactants and Percent Yield • Macromolecules <p>Labs/Activities: Types of Chemical Reactions Mole Stations Lab Stoichiometry of S'mores</p>	TBA	<p>Modern Chemistry</p> <p>Chapter 6 Chapter 7 Chapter 8 Chapter 9 Chapter 22</p> <p>Worksheets: ChemQuest POGIL</p> <p>Online: Class website pHet simulations Ed: Your Friend in Learning</p>
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Second Semester

Unit	Topics	Unit Test	Resources to Use
4	<p>Heat and Energy in the Earth's System and Reaction Energy</p> <ul style="list-style-type: none"> • Thermochemistry • Driving Force of Reactions • The Reaction Process • Reaction Rate <p>Lab/Activities: Calorimetry Lab Rate of Reaction</p>	TBA	<p>Modern Chemistry</p> <p>Chapter 16 Chapter 17</p> <p>Worksheets: ChemQuest POGIL</p> <p>Online: Class website pHet simulations Ed: Your Friend in Learning</p>
5	<p>Atmosphere/Gas Laws</p> <ul style="list-style-type: none"> • Gases and Pressure • The Gas Laws • Gas Volumes and Ideal gas laws • Diffusion and Effusion 	TBA	<p>Modern Chemistry</p> <p>Chapter 11 Chapter 12</p> <p>Worksheets: ChemQuest</p>

	<ul style="list-style-type: none"> • Types of Mixtures • The Solution Process • Concentration of Solutions <p>Labs/Activities: Gas Law Station Lab Molar Volume of Gas Molarity Lab</p>		POGIL Online: Class website pHet simulations Ed: Your Friend in Learning
6	Equilibrium/Acids and Bases <ul style="list-style-type: none"> • Properties of Acids and Bases • Acid-Base Theories • Acid-Base Reactions • Aqueous Solutions and the Concept of pH • Determining pH and Titrations • The Nature of Chemical Equilibrium • Shifting Equilibrium • Equilibria of Acids, Bases and Salts • Solubility Equilibria • Oxidation and Reduction • Balancing Redox Reactions 	TBA	Modern Chemistry Chapter 14 Chapter 15 Chapter 18 Chapter 19 Worksheets: ChemQuest POGIL Online: Class website pHet simulations Ed: Your Friend in Learning

Sign Sheet Section to be turned in

Please fill in the following information and provide phone number(s) where I can contact you or leave a message concerning your student. Please include email if available because I find this a very useful tool of communication also.

Student's name: _____

Father's name: _____

Contact Number: _____

Email: _____

Mother's name: _____

Contact Number: _____

Email: _____

Please list any information that I should be aware of that may limit participation in certain class or laboratory activities. Thank you.

Chemistry

“My son/daughter and I have read the student behavior contract and agree to abide by these rules, or as a parent, help my student to keep these rules by: providing a quiet place for them to work, encouraging them to do their best, complimenting them when they do well, seeing that they get enough sleep at night, and get a nutritious breakfast in the morning.”

Student Name: _____

Period: _____

Student Signature: _____

Parent/Guardian Signature: _____

Date: _____

