

Chemistry A

With Mr. Lockos

Course Description

Chemistry A has a math prerequisite.

- Students must have completed Geometry with a "C" or better to be enrolled in Chemistry A.

Chemistry A is an accelerated high school chemistry course. The intent of the course is to develop a foundation of unifying chemical principles through laboratory experiences and direct teaching techniques.

The scope and sequence of the course is designed to have the student explore, learn, apply, and expand their understanding of the fundamental structure, characteristics, and properties of matter as applied to chemistry.

Students will use measurement and calculations in conjunction with the periodic table to learn the basics of chemistry. Topics covered will include but not be

limited to the classification of matter, structure of the atom, chemical bonding, chemical reactions, chemical quantities, ionic and molecular nomenclature, Kinetic Molecular Theory, gas laws, and acids and bases.

These topics will be studied quantitatively as well as qualitatively. The use of Algebra will be used to develop an in-depth understanding of chemistry concepts. Students are encouraged to be proficient in the use of arithmetic skills and problem solving techniques.



Chemistry has been compared to learning a foreign language.

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Everyone's Educational Plan (EEP)

An EEP is an acronym for Everyone's Educational Plan. An EEP applies to every learner in the classroom and when used consistently allows for a rewarding and lasting Chemistry A experience.

Following the EEP is the sole responsibility of the learner and not the responsibility of the learner's parents, guardians, teachers, or friends.

Everyone's Educational Plan

1. Arrive to class everyday.
2. Practice the assignments during class time.
3. Practice the assignments independently and outside of class.
4. Stay current with the given assignment.
5. Check the homework webpage everyday.
6. Check your updated grade everyday.
7. Turn in all missing assignments.
8. Ask for help during class.
9. Arrive before or after school for help.
10. Form a study group.



The most important contribution to your grade is your attendance and work ethic.

“Chemistry waits for no one, its ruthless that way”



There should be no surprise about your grade. Check your grade daily.

Homework and Daily Assignments

Homework and daily assignments will be given through-out the course of the year. Homework serves several purposes: practice, preparation, and elaboration. To be successful in Chemistry A students are expected to spend anywhere from 1-5 hours of homework a week, sometimes more if projects or tests are in the

near future. Homework usually comes in the form of finishing what was started in class.

Late homework will be accepted with a 25% reduction in the grade for the late assignments turned in before the unit test and 50% reduction in grade for assignments turned in after the unit test but before the six

week grading period ends. Once the six week grading period has passed late homework will not be collected for credit.

Late or missing assignments will always be available for you to find in the hanging folder files for the entire six week grading period as well as in PDF form on the Edline homework webpage.

Grading

Your grade will be calculated by adding together all your earned points on all assignments, projects, and assessments divided by the total points possible from all the assignments, projects, and assessments. The quotient

will then be multiplied by 100 to derive a percent. Your grade will be available daily by accessing the student or parent portal on SIS available online. You will need a passcode to access your grade online. I will also have your grade availa-

ble to reference daily in class. **There should be no surprise about your grade.**

There will be roughly 800 - 1000 points available each semester.

Required Materials

There are few required materials, however the materials that are required are critical to your success in Chemistry A.

The required materials are:

1. Yourself
2. Writing Utensil
3. Notebook or organizer dedicated specifically for Chemistry A.
4. Calculator

Tardies and Absences

Tardies will be counted. On your third unexcused tardy to class a form will be filled out and turned into your unit office.

Absences will be recorded. If you have an excused absence from class your missing work will be due in an equal amount of time you were absent without a

late grade deduction. The make-up work will always be available for you, or a friend, to pick up during school or upon your return. You will also be able to access the missing work as a PDF document on the Edline homework webpage.

In extreme cases where a student must be absent for an extended time an agreement will be worked out with the student's educational team.



Late homework is accepted for a 25% reduction in the grade before the unit test or a 50% reduction in the grade if turned in after the unit test but before the end of the six week grading period.

Extra Credit and Hall Passes

You will receive and index card at the beginning of each semester. The index card has four corners which represents how many times you can leave the room per your request. The passes, or corners, are for you to use whenever you need to go to your locker, restroom, to get a drink, or

go to the office or counselor. Of course, if the office, counselor, or adult requests your presence no pass will be deducted from the index card. Every corner that is **not** used on your index card will count towards 5 extra credit points on your semester and final exams.

Extra credit is not offered until the end of the semester and only if the student has 100% of their daily work turned in for credit. Extra means more than usual. Do not ask for extra work until the normal amount is completed.

Mr. Lockos has been quoted as saying, "I would even mark my own mother tardy."

Sequence of Course Units

This is a general outline of the sequence of course units that will be studied in Chemistry A with Mr. Lockos. This does not represent the entire curriculum and units and topics may be learned in a different order than written.

Sequence of Course Units:

Scientific Method

Metric System
 Variables in an Experiment
 Measurements and Calculations
 Physical and Chemical Properties
 Classification of Matter
 History of Atom
 Periodic Table and Periodicity
 Formation of Compounds
 Bonding

Nomenclature
 Chemical Reactions
 Acids and Bases
 Chemical Quantity
 KMT
 Gas Laws
 Organic Chemistry
 Radioactivity
 Nuclear



Extra means more than usual. Do not ask for extra work until the normal amount is completed.

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Mr. Lockos is committed to your success in Chemistry A. Your grade will be updated daily to be sure that you are informed about your progress in class. What is important to Mr. Lockos is that every student in Chemistry A has a rewarding and lasting learning experience. This rewarding and lasting experience can be achieved when the student feels safe in their learning environment and clear learning objectives are conveyed with meaningful and authentic assignments. The students will be challenged but success can be achieved that lasts a lifetime.



Chemistry A

Learning is like an inchworm. The inchworm moves forward by stretching, stretching and then pulling back. If all it does is stretch it can never move forward.



We tie-dye T-shirts at the end of the year in Chemistry