

Chemistry Syllabus

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Room: 073

Welcome to Chemistry! This year we will immerse ourselves in the study of Chemistry using the Living by Chemistry textbook (2nd edition). Course content is aligned with the Next Generation Science Standards for High School students (<http://www.nextgenscience.org/>).

Units will include:

1. Matter, Atomic Structure, and Bonding
2. Molecular Structure and Properties
3. Phase Changes and Behavior of Gases
4. Stoichiometry, Solution Chemistry, and Acids and Bases
5. Energy, Thermodynamics, and Oxidation-Reduction Reactions
6. Reversible Reactions and Chemical Equilibrium

Students are expected to visit the class website (<https://davidswart.org>) daily for a review of class content and additional learning opportunities.

Course Expectations:

- Daily attendance and active engagement are expected. In the event of absence, students are responsible for acquiring the learning from class by:
 - Reading the lesson from the textbook, write notes on the chapter notes handout, and answer the homework problems.
 - Asking a friend for notes from class.
 - Consulting the class website for supplemental content and check your homework answers against the answer key.
 - Attending office hours (will be posted once determined)
- Come to class prepared with a notebook and something to write with, both on your desk, when the bell rings. Use both to take notes and complete lessons. You should be seated at your desk at that time.
 - You are strongly encouraged to purchase a scientific calculator. We have a limited supply of Casio fx-300MS scientific calculators to use in the classroom. Please consider purchasing your own to practice using outside of class, and to bring daily to use in class.
- Hoods and headphones are not permitted in class. Remove both before entering the classroom. This is non-negotiable.
- You will be told when use of electronics is appropriate. Personal electronic devices should remain in backpacks until use is expressly permitted. This is non-negotiable.
- Personal protective equipment must be worn during labs as instructed.
- Clean up after yourself. Leave the classroom better than you found it.
- Be respectful to your teacher and classmates at all times. Strive to be your best self and embrace the challenge of learning chemistry. It will be hard, but you can do it.

Student initials _____ Parent/Guardian initials _____

Student-Provided Class Materials:

Students are required to bring with them to class daily:

- Lab notebook (composition notebook, preferably quad rule)
- Something to write with
- A folder to organize work
- Optional (but strongly encouraged):
 - scientific calculator (Casio fx-300MS)
 - eye protection (Flinn Scientific Visor Goggles (item # AP1362) or Chemical Splash Goggles (item # AP8739))

Grading Philosophy:

My expectation is that all students will be successful in this class. Come to class on time every day with your materials and an open mind. Share what you know and ask questions about what you don't. Engage in the material, build strong relationships within the class, and study every day. Hint: include sharing your daily learning at home as study time! Your grade should reflect your level of understanding, which should directly correlate with the time you invest in the class.

Grading Categories:

Participation (in-class work) = 20%

Mini-quizzes = 20% (one drop per quarter)

Chapter tests = 20% (one re-assessment per quarter)

Unit exams = 20%

Lab reports = 20% (due two weeks after a lab ends, late = 50% max credit)

- Homework is assigned as a supplemental activity to help reinforce the concepts learned in class. Students should attempt all homework at the end of each lesson. Answer keys are provided on the class website for students to check understanding. The assignments are the study guide for tests and exams.

Grading Scale:

A = 90-100%, B = 80-89%, C = 60-79%, D = 40-59%, F = less than 40%

Classroom Policies:

- **Behavior:** As a high school student, you are expected to behave accordingly. Students will be held to the expectations outlined in the safety contract. My expectations are high because you are worth it. Behavior that presents a danger to self or others as determined by the teacher will result in removal from the classroom and may require a parent/teacher/administrator conference prior to the student returning to class.
- **Thinking:** Each student is responsible for demonstrating their own mastery of content. Work turned in that clearly does not represent the student's own thinking will not receive credit. Assessments (quizzes, tests, and exams) are expected to be completed individually. **Students sharing answers on assessments will both receive a score of zero on the assessment and a referral. If you think someone has been copied your work, please notify the teacher immediately. A discreet note on the assessment is sufficient.**

Student initials _____

Parent/Guardian initials _____

- Language: Each day, we will practice the art of speaking the language of science. Words matter. Please choose yours carefully. Hate speech earns an automatic referral. If you are unsure, save it and talk with me after class.
- Electronic Devices: The use of personal electronic devices is not permitted in class unless authorized by the teacher. Keep in backpack until told otherwise. Inappropriate use will result in an administrative referral.
- Eating/Drinking/Makeup: Eating, drinking, chewing gum, and applying makeup are not permitted in the lab. Discard or safely store any such items before entering.
- Bathroom: Take care of your body. One student at a time may sign out the hall pass and use the bathroom. Please be courteous of other students: leave/enter the classroom quietly and be efficient so as not to keep other students waiting. Failure to sign out will be treated as truancy and will result in a referral.
- Tardy: Class begins when the bell rings to start class. Students not in their assigned seats when the bell rings will be marked tardy. Students arriving 10 minutes or more after the bell will be marked absent. Class ends when the bell rings to end class.
- Absence: Students are responsible for ensuring content mastery and visiting the class website daily is the best way to stay caught up. Students with an excused absence on a lab day must arrange to make up the lab with the teacher during the first available office hours day after school immediately following the missed lab. Students with an excused absence on an assessment day must coordinate with the teacher to take the assessment as soon as possible.

Role of Parent/Guardian:

- Check Illuminate weekly to stay informed of your student's performance. **Your student knows how to do this and can walk you through the process.** You should expect to receive quarterly report cards, and mid-quarter report cards if your student has a D or F in a class. Contact the school to ensure your mail address and phone number are current.
- Please contact me if there are special circumstances, concerns, or issues of which I should be aware of for your student at any point during the school year.
- Thank you for ensuring your student comes to school every day prepared to learn.
- Please demonstrate interest in your student's learning by encouraging strong study habits and asking for them to share what they have learned with you each day.
- Encourage your student to take ownership of their learning. After school help is available.
- Please sign below to ensure that the previous information has been read and understood.

I HAVE READ THE SYLLABUS AND AGREE TO ABIDE BY THE POLICIES REGARDING:

Student

Print: _____

Sign: _____

Date: _____

Parent/Guardian

Print: _____

Sign: _____

Date: _____

Phone or Email:

Student initials _____

Parent/Guardian initials _____