

Chemistry Syllabus  
Teacher: David Swart  
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Room: 075

Welcome to Chemistry! This year we will immerse ourselves in the study of chemistry using the Living By Chemistry (2nd edition) textbook written by Dr. Angelica Stacy, Professor of Chemistry at University of California at Berkeley. 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
6. Reversible Reactions and Chemical Equilibrium

**Students should visit the class website <http://davidswart.wordpress.com> for a review of class content and additional learning opportunities.** Daily lesson content, along with required reading, classwork, and homework will be posted there. Whenever possible, additional learning resources related to lesson content (i.e. readings, links to websites with supplemental content, videos, suggested mobile device apps, and more) will also be included in the lesson summary. **Students are expected to check the website daily.**

**Class Expectations**

1. **Be Present:** Excellent daily attendance and active daily participation are characteristics of successful students.
2. **Be Positive:** We are a community of learners and we all learn best in a positive, supportive environment.
3. **Be Responsible:** As individual learners, we must own our own successes, learn from setbacks, and embrace learning opportunities each day.
4. **Be Prepared:** Each day, bring your lab notebook, something to write with, and your enthusiasm!

**Class Policies**

1. **Behavior:** We will be conducting lab experiments throughout the year in our classroom. Students must return the signed parent consent form to participate. Behavior inappropriate for a lab environment will result in immediate removal from the classroom.

2. **Eating/Drinking:** Because our classroom doubles as a lab space, eating, drinking, and gum are not permitted in the classroom.
3. **Electronic Devices:** Cell phones and other electronic devices are not permitted in class unless authorized by the teacher. Inappropriately used devices will be confiscated by the teacher and returned at the end of class.
4. **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 who arrive 10 minutes or more after the bell will be marked absent unless they have a pass excusing them. Class ends when the bell rings to end class. Participation grades will reflect appropriate use of class time.
5. **Absence:** When possible, pre-arrange absence with the teacher. Students are responsible for ensuring content mastery, and visiting the class website daily is the best way to stay caught up. Students missing class on a lab day must arrange to make up the lab with the teacher.
6. **Homework:** Expect to spend at least 30 minutes every day outside of class studying, reviewing, completing unfinished classwork, completing homework assignments, and engaging with the bonus content posted to the class website.
7. **Thinking:** Each student is responsible for demonstrating mastery of content. Work turned in that clearly does not represent the student's own thinking will not receive credit.
8. **Formative Assessment:** Students will have daily opportunities to demonstrate their progress toward mastering the daily objectives. Examples of assessment opportunities include evaluation of work completed in and out of class, chapter quizzes, and substance of classroom discussions.
9. **Summative Assessment:** Each unit will conclude with an exam.
10. **Participation:** Students are expected to participate in entry tasks and exit tickets, practice respectful scientific discourse while working with others, and contribute to the best of their abilities on individual and group assignments.
11. **Extra Credit:** Bonus questions may be included on chapter quizzes and/or unit exams based on content posted to the class website that was not covered during class.
12. **Semester grade:**
  - Formative Assessment (Classwork / Quizzes / Homework): 50%
  - Summative Assessment (Unit Projects / Exams): 30%
  - Participation (Classroom Citizenship / Attendance): 20%
13. **Grading Scale:** A = 90-100%, B = 80-89%, C = 70-79%, D = 60-69%, F = less than 60%
14. **Extra help:** Please ask! I will post my after-school availability outside the classroom doors and am available upon request before school or during lunch. Email is an excellent way to reach me. I strongly encourage students to form study groups and am happy to host and/or facilitate after school study sessions.

**Student Signature** \_\_\_\_\_

**Parent/Guardian Signature** \_\_\_\_\_