



Chemistry Syllabus 2017-2018



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Course Description: This is a two-semester course designed to provide students with the necessary skills to be proficient in chemistry and to be prepared for college-level chemistry and science related majors. For the specific Chemistry Georgia Standards of Excellence please refer to: <https://www.georgiastandards.org/Georgia-Standards/Pages/Science.aspx>.

Syllabus Objectives

Unit	Unit Topics	Objective: To obtain, evaluate and communicate information about...	Corresponding Chapters in Text	Approximate Time (weeks)
0	Intro to Chemistry, Safety and Measurement	The nature of science, scientific measurements, and laboratory safety	1, 2	2.0
1	Atomic Theory, Periodic Table and Trends	Use of modern atomic theory and periodic law to explain the characteristics of atoms and elements.	4, 5, 6	5.0
2	Nature of Matter, Bonding and Nomenclature	The chemical and physical properties of matter resulting from the ability of atoms to form bonds.	3, 7, 8	4.0
3	Chemical Reactions, Moles and Stoichiometry	Use of the Law of Conservation of Matter to determine chemical composition in compounds & reactions.	9, 10, 11	8.0
4	States of Matter, Kinetic Theory, Gas Laws, Thermochemistry	The Kinetic Molecular Theory to model atomic & molecular motion in chemical and physical processes.	12, 13, 15	7.0
5	Water Systems, Solutions, Acids and Bases	The properties that describe solutions and the nature of acids and bases.	14, 18	6.0
6	Kinetics, Thermodynamics and Equilibrium	How to refine the design of a chemical system by applying engineering principles to manipulate factors affecting a chemical reaction.	16, 15.5, 17	3.0

Text: *Chemistry: Matter and Change*; Glencoe/McGraw-Hill, 2008; ISBN #: 978-0-07-874637-6

Materials (please bring daily to class): textbook, 3-ringed binder with 5 dividers (labeled openers, notes, labs, homework/classwork, quizzes & tests) and notebook paper, black/blue pens, red pen, #2 pencils, scientific calculator.

CLASSROOM RULES:

- Obey all school and classroom rules and follow school-wide behavior expectations.
- Be polite and respectful. Listen when someone else is speaking.
- Be prompt, prepared (with required materials), alert and ready to learn. Follow class procedures for electronic devices.
- Unacceptable behavior during a lab or class activity will result in a grade of ZERO for that activity.
- No food or drinks** other than bottled water may be consumed in the classroom. Nothing may be consumed in lab area.



CLASSROOM PROCEDURES:

1. Student Responsibility: You are expected to be respectful towards your teacher, classmates and the property of others. If you act like mature adults, you will be treated as such. Correction of student misconduct will be according to Northview and Fulton County Policy. Cell phones and chromebooks are to be used in class only for designated activities. Cell phones will be collected before all tests and exams.

2. Seating Chart: Every student will be assigned a place to sit in the class. Assigned seats may be changed by the teacher, if the need arises. Seating assignments will be changed periodically.

4. Tardy Students: Students must be in their seats and ready to begin work when the bell rings. The tardy policy **per 6-week period** is:

1st Tardy: Written Reprimand 3rd Tardy: Administrative Referral & 2 days public detention
2nd Tardy: 1 day Private Detention 4th & Subsequent Tardies: Administrative Referral & 1 day Saturday Opp. School



4. Leaving the Room: Students must use the time between classes to go to their lockers and take care of personal matters. No student may leave the room during the first and last 10 minutes of class. No lining up at the door before the bell rings.

5. Student Participation: Students are expected to pay attention and contribute to class activities and labs. This includes taking notes. Be an active learner! Do not be afraid to ask questions!

6. Honor Code Policy: Cheating has been defined as giving or receiving information relating to a gradable experience including the use of sources other than those specifically approved by the teacher. Plagiarism and the related act of allowing another student to use one's work are not

to be considered inconsequential pranks. Such acts involve serious moral implications; they constitute lying and stealing. They are unjust to teachers who spend valuable time evaluating the paper. They are ultimately harmful to the student committing the act, who is deliberately undermining his/her integrity, destroying his/her reputation, and breaking the trust that must exist between a student and teacher. An honor code violation results in a zero on the assignment, no opportunity to make up the work, and disciplinary action. For the complete honor code policy, visit the Student Handbook on www.northviewhigh.com. The Honor Code policy will be strictly enforced. Upon teacher request, students may be required to email papers to **turnitin.com**. The website checks the submission for plagiarism.

7. Homework and Assignments: Homework (HW) and Classwork (CW) will be graded regularly. It will be graded based on effort and/or on accuracy. Simply writing down numbers or letters is **not** considered effort. **You must show your work for full credit!** Classwork is comprised of activities that we do in class but are not labs. **In addition to assigned homework, students are also expected to read each chapter in the textbook.**

8. Late Work: All work is due at the beginning of class on the date it is due. No late work is accepted except in the case of an excused absence. Labs and projects will be accepted late for a penalty of 20% each day. Students will be eligible to earn 2 late homework passes to use during the semester. These allow you to submit completed homework one day after it was due.

9. Make-up Work: You are responsible for making up all missed work. You have 1 day for every excused absence day to make up your work. Labs, tests and quizzes must be scheduled promptly with the teacher upon return. Labs must be made up within 1 week of return or an alternative assignment will be given. Assignments made prior to the absence, including tests and quizzes scheduled for the day of return, are due upon the student's return. Students who are present for any portion of the school day are expected to turn in all assignments due on that day to receive full credit. An excused absence makes the student eligible to receive full credit for making up the work missed. An unexcused absence makes the student eligible to receive a maximum score of 80%. Make-up work must be handed to the teacher.

10. Missed Work: There will be a "Missed Work" binder in the room. **It is your duty to obtain notes, homework and handouts that you missed.** The best way to keep up with missed work is to have a "study buddy" to copy notes from and to keep you informed of what you missed.

11. Quizzes and Tests: Scheduled quizzes (both content and lab) as well as "Pop" quizzes will be given to assess the level of student's understanding. There will be a test after the completion of every chapter or group of chapters.

12. Lab Experiments: Lab work is very important in chemistry and offers hands-on experience. It is critical that you listen carefully to instructions and follow all safety rules to perform the labs in a safe and accurate manner. Splash goggles are mandatory for all labs. Lab equipment is shared among many classes, so you are responsible for paying for any lab equipment that you break.

13. Warm-ups and Closings: Every class will begin with a "Warm-up" and end with a "Closing". Students are expected to begin the warm-up immediately when the bell rings, and to participate in the closing activity.

14. Notebooks: Notebooks will include the syllabus, handouts, openers, notes, labs, class work, homework, and quizzes/tests. **Save all your work to study for your cumulative final exam.**

15. Help Sessions: Extra help is available before and after school. Please see me to arrange a mutually agreeable time. Chemistry takes practice and continuously builds on itself. It is important that you master all concepts before moving on to the next one.

16. Recovery Policy: Recovery is for students who, despite a conscientious effort and communication with their teachers, have failed to demonstrate satisfactory understanding of course goals. It is not for the student who has been failing for many weeks and then wishes to recover during the final days of the course. Opportunities for students to recover from a 74 or below cumulative average will be provided when all work required to date has been completed and the student has demonstrated a legitimate effort to meet all course requirements. Students who have not attempted to complete all course requirements are not eligible for recovery. Students may initiate recovery on major assessments starting with the second major assessment of the semester as long as they have made a legitimate effort to meet all course requirements including attendance. Unexcused absences may prevent this opportunity. So that students stay focused on the content at hand and don't become overwhelmed and fall too far behind, they must initiate recovery on a major assessment within five school days of being informed of the grade on that assessment. Recovery work must be completed within 10 school days prior to the end of semester. The type of recovery assignment is given at the teacher's discretion.

18. Progress Reports: Progress reports will be issued every six weeks. Parents/guardians may access their children's assignments, grades, attendance, and discipline records via the Internet through **Home Access Center**. Please visit www.northviewhigh.com. Parents/guardians may correspond with me via email at any time to discuss any concerns or schedule a conference.

20. Grading Procedure:

Tests & Projects: 40% **Labs: 20%** **Quizzes: 15%** **Homework/Classwork: 10%** **Final Exam: 15%**

Grading Scale: A= 90 and above B= 80-89 C=70-79 F= 69 and below