



Thomas County Central High School Honors Chemistry and Chemistry Syllabus

4686 U.S. Hwy 84 Bypass
Thomasville, GA 31792

Mrs. Michele McCorkle
229-225-5050 EXT 2746
mmccorkle@tcjackets.net

Mr. Jonathan Ariail
229-225-5050 EXT 1753
jariail@tcjackets.net

Materials: Three ring binder

Chromebook or personal laptop (Only School issued Chromebooks will be used for testing purposes.)

Calculator with scientific functions (may be the same as your math class) Cell phones will not be used as a calculator.

Pen or pencil

Color pencils and color markers will be used in projects, but are not required.

Textbook is Pearson: Chemistry. \$128.71. Students are responsible for books that they check out. They will be given an indebtedness notice if not returned by the end of the year, which will need to be cleared to be able to walk at the graduation ceremony.

Course Description: Chemistry is a laboratory science course in which students investigate the composition of matter and the physical and chemical changes it undergoes. This course provides students with an understanding of chemical principles and skills that are needed for college. The study of chemistry includes laboratory investigation, problem solving activities, textbook study, lecture, and class discussion. Students will complete a long term science project that will count as multiple test and project grades for each nine week grading period. Students are also required to read outside articles as part of the Common Core Reading standards for science.

Course Differentiation:

Chemistry: Chemistry students will cover the required chemistry standards. Chemistry students will learn conceptual and simple mathematical concepts of chemistry. All chemistry students are required to complete a long-term science fair or Exploravision project. Students will use lab skills and make observations during lab investigations to understand basic chemistry concepts.

Honors

Chemistry: Honors chemistry students will move at a faster pace to cover more in depth topics than the required chemistry standards. Honors chemistry students will be exposed to rigorous mathematical and analytical skills in preparation for AP Chemistry or other AP sciences. All Honors chemistry students are required to complete a long-term science fair or Exploravision project. Honor chemistry students will plan, design, and analyze experiments to produce lab reports.

Prerequisites: Successful completion of Biology and Algebra 1; recommendation of science teacher.

Grading:	Benchmark	20%
	Tests	40%
	Daily	15%
	Labs	25%
		100%

Chemistry Course Sequence
Georgia Standards of Excellence

Unit Title	Standards	Nine Weeks	Time Frame
1-Matter & Measurement		1 st	2-3 weeks
2-The Atom	SC1a-d	1 st	2-3 weeks
3-Electrons in Atoms	SC1e, g	1 st	2-3 weeks
4-The Periodic Law	SC1f	1 st / 2 nd	2 weeks
5-Chemical Bonding	SC2a-e	2 nd	3 weeks
6-Chemical Equations & Reactions	SC3a & b	2 nd	3 weeks
7-The Mole	SC3c	2 nd / 3 rd	2-3 weeks
8-Stoichiometry	SC3d & e	3 rd	3 weeks
9-Gases	SC5c	3 rd	2 weeks
10-Solutions	SC6a-e	3 rd	2 weeks
11-Acids & Bases	SC6f-h	4 th	2-3 weeks
12-Reaction Rates & Equilibrium	SC4a-d	4 th	2 weeks
13-Kinetic Theory & Thermochemistry	SC5a & b	4 th	2 weeks

Project Information

All work must have prior approval. Work will not be graded for projects that have not been approved.

Exploravision Group of 2-4 www.exploravision.org	Science or Engineering Project Individual or Pairs http://www.societyforscience.org/isef/	Due date & assignment
Create and explore a vision of future technology by combining imagination with the tools of science. See above website for more information.	Design and conduct an experiment to answer a question or solve a problem. Engineering projects set a goal and build a prototype. See above website for more information.	
TOPIC Select group and identify topic. Write a paragraph explaining your topic (the technology, the problem it could solve and a short explanation). DESIGN PROCESS Explain three other topics you initially thought about. Explain why you decided to focus on your topic instead of the other ones. FUTURE This is the most important part of the Exploravision paper. Describe your vision for your project. Use original drawings whenever possible.	TOPIC AND PURPOSE Work individually. Describe topic and briefly explain why you chose this topic MATERIALS Make a list of ALL the equipment and materials that you will need to complete your project at home METHODS Describe the procedure that you will follow in order to test your topic.	Friday, August 25th Lab Grade (no other work will be accepted until the topic has been approved)
HISTORY, PRESENT, & BIBLIOGRAPHY. Follow formatting guidelines given to you. You will resubmit these sections, be sure to save your work electronically. This should be written in proper MLA or APA format and include a bibliography. SUBMITTED through TURNITIN	BACKGROUND RESEARCH & BIBLIOGRAPHY Write a summary of background research relating to your topic and design your experiment. Introduce your paper with the purpose, question, and hypothesis. This should be written in proper MLA or APA format and include a bibliography. SUBMITTED through TURNITIN	Friday, September 15 (Forms and Rough Draft) Friday, September 29th Final Draft Lab Grade
REVISED FUTURE AND PROTOTYPE, BREAKTHROUGHS, & CONSEQUENCES Follow guidelines provided from teacher. SUBMITTED through TURNITIN	RESULTS Display data in appropriate tables and graphs with pictures Conclusion: written in the CER (claim-evidence Reason format)	Friday October 27th Lab Grade
ABSTRACT Describe your project in 150 words or less. SUBMITTED through TURNITIN WEB PAGE GRAPHICS (5) Follow directions provided.	ABSTRACT (Submitted on Turnitin.com) Complete all aspects of the abstract in 250 words or less. BACKBOARD DISPLAY Turn in an attractive and well organized backboard describing your work.	Friday, December 1st Lab Grade
December 8, 2023 TCCHS Science Fair		
A Physical Backboard Display will be needed for Region and State Level Competitions.		
January 31, 2024 Virtual Competition for Exploravision TBD: Region Science Fair		



Thomas County Central High School Honors Chemistry and Chemistry Syllabus

4686 U.S. Hwy 84 Bypass
Thomasville, GA 31792

Mrs. Michele McCorkle
229-225-5050 EXT 2746
mmccorkle@tcjackets.net

- Rules:** Be on Time.
Be courteous to others
Follow all written and oral directions
Respect others and their property.
Obey all of the TCCHS handbook rules.
- Labs:** All students are required to sign a lab safety contract at the beginning of the year. Please look for this in the first day materials. Labs are performed in group settings and as individuals. If the student does not turn in a paper as an individual or if the group does not turn in a paper, a Missing grade will be given until the paper is turned in. Students who are absent on the day of a lab may be given a different assignment over the same standards to be completed at home.
- Daily:** Students may have homework assignments or classroom assignments that must be turned in at the beginning of class on the date that it is due. Students who are absent on the day of a quiz will have a Missing grade in the computer and will be replaced by the student's final test grade for that unit. If a student has taken all of the quizzes, I will replace the lowest quiz grade with their test grade if it is higher than the lowest quiz grade. All paper and digital assignments will be imported into Google classroom for each unit. Please check Google classroom for assignments when you are absent. All assignments both paper and digital will be submitted digitally in Google classroom or in Moodle.
- Tests:** Tests are designed with multiple-choice questions, constructed responses and word problems that will help prepare your student for the benchmark exams. If your student is absent on the day of the test, he or she can make an appointment to take the test before school, during class, or after school. If the student chooses to take the test during class, he or she will be responsible for the notes and assignments during that class period for homework. Cheating on a test by communicating with a student physically in the class or outside of the class electronically will result in a zero for the test grade and an academic dishonesty referral. All Formative tests must be taken on a school-issued Chromebook with a lockdown browser. Each unit will have a notebook check that is an optional 10 points in the test grade column. Notebook checks are optional and can consist of handwritten notes taken during the unit, typed notes in a Google doc or slide, or additional notes added to notetaking guides.
- Tutoring:** I provide tutoring to all of my students before or after school by appointment only. Tutoring is available in the morning from 7:30-7:55 and in the afternoon until 3:30. Students may stay longer in the afternoons only with prior notice and with transportation arrangements made in advance. It is important for students to master the concept before the day of the test and I would recommend students to come to tutoring if they are unable to complete a quiz or daily practice problem without the help of others. Students can also attend tutoring in the media center from another science teacher from 3:30 – 4:30, Monday-Thursday. Sometimes hearing the same lesson from another teacher is beneficial.

Syllabus and Contact Information

Please list the best way to be contacted during the day and evening hours. Circle your preferred method of contact.

Home Phone: _____

Cell Phone: _____

Work Phone: _____

E-mail: _____

I understand that the rules and requirements listed in the syllabus. I understand that my failure to uphold these rules and regulations could result in detention, parent conference, and/or referral to the administration.

Student's Name: _____

Student's Signature: _____

I understand the guidelines set in the syllabus. My child has read and fully understands the requirements in the class. I will give my child the appropriate support and guidance during the course.

Parent's Name: _____

Parent's Signature: _____

I will provide a safe, positive learning environment by upholding school policies set in the TCCHS student handbook. I will monitor your student's progress throughout the course and will provide updates on student's grades as needed.

Teacher's Name: Mrs. McCorkle

Teacher's Signature: _____