



**Canes Chemistry  
Honors/Gifted  
2023-2024**

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**Course Description:**

The course is designed to be a hands-on, student centered, and inquiry-based course to teach the chemistry specific Georgia Standards of Excellence. These content specific standards include:

- SC1. Obtain, evaluate, and communicate information about the use of the modern atomic theory and periodic law to explain the characteristics of atoms and elements.
- SC2. Obtain, evaluate, and communicate information about the chemical and physical properties of matter resulting from the ability of atoms to form bonds.
- SC3. Obtain, evaluate, and communicate information about how the Law of Conservation of Matter is used to determine chemical composition in compounds and chemical reactions.
- SC4. Obtain, evaluate, and communicate information about how to refine the design of a chemical system by applying engineering principles to manipulate the factors that affect a chemical reaction.
- SC5. Obtain, evaluate, and communicate information about the Kinetic Molecular Theory to model atomic and molecular motion in chemical and physical processes.
- SC6. Obtain, evaluate, and communicate information about the properties that describe solutions and the nature of acids and bases.

**Unit Sequence/Topics Covered:**

**Semester One:**

Unit 1: Atomic Theory  
Unit 2: Periodic Table & Its Trends  
Unit 3: Inter & Intramolecular Forces  
Unit 4: Nomenclature  
Unit 5: Chemical Reactions  
Unit 6: Scientific Math

**Semester Two:**

Unit 7: Chemical Kinetics & Equilibrium  
Unit 8: Introduction to Moles  
Unit 9: Stoichiometry  
Unit 10: Thermochemistry & Phase Changes  
Unit 11: Solutions  
Unit 12: Acid & Base Chemistry

**Grading Procedure:**

The semester grades are made up of a combination of Formative (40%) and Summative (60%) assessments.

- At the end of a semester course, the Final Course Average is calculated with 90% (semester grade) and the Final Exam, 10%.

**Materials needed/suggested:**

3-ring binder, 5 notebook tabs, notebook paper, writing utensils, and a scientific calculator.

The school provides goggles & aprons for lab.

**Text:** Chemistry- A student copy will be provided should you choose to use one. Replacement cost for the text is \$118.00.

**~Teacher Expectations:**

**All school rules will be followed in class.** Students are expected to be in class and in their seats when the bell rings. Every day the student should have class materials with them to complete their assignments. Students should be prepared to learn and positively participate in the class activities – until the bell rings for the end of class.

*Due to the specific nature of the course, it is imperative that students be aware of their surroundings and be responsible for their actions. Often times, laboratory exercises will be conducted and it is essential for all students to give their full attention to the tasks at hand.*

**~Behavior Expectations:** Since this is a hands-on, student –centered course, much responsibility lies in the hands of the student. Not only will mental discipline be required to master the content, but emotional and behavioral discipline will be required in laboratory settings in order to gain the laboratory skills required for the course’s successful completion. Safety is always a primary focus when laboratory activities are conducted. In order to maintain a safe environment, all lab protocols must be followed and it is essential that students listen and follow all given instructions. **There will be NO CELLPHONES used in class or lab at any time. Students will be required to put cellphones up in wall caddy before class and take them out on their way out of the room.**

**~Labs:** Labs will be announced several days in advance. You will be expected to complete any pre-lab assignments and to be dressed appropriately for lab (rubber-soled shoes and long hair tied back). Students absent, or those who were unable to do the lab, are expected to either make up the lab after school or collect make up data *from the teacher, not a peer*, when they return. **THERE WILL BE NO EXCEPTIONS. There are to be NO CELLPHONES out on while in the lab. Cellphones are to be stored in the students’ backpacks.**

**~Tests:** You will be given at least a two-day notice prior to a test. You may use a calculator on any test, but you may not share calculators with classmates. You will also be provided a periodic table with reference equations to use during every test. It is your responsibility to keep up with it. In most cases, the day before a test no new material is covered. If you are absent the day before the test and no new material has been covered, you will be expected to take the test the day you return.

**~Test Conditions:** Certain conditions must be maintained while evaluations are taking place. If you break any of the rules presented here for these conditions, your grade may reflect this with a forfeiture of points.

- **NO TALKING UNTIL EVERYONE IS DONE WITH THE TEST**
- **NO GETTING UP DURING TESTING UNLESS INSTRUCTED TO DO SO**
- **NO SHARING OF BOOKS, CALCULATORS, ETC.**
- **NO LOOKING AT OTHER STUDENT’S WORK**
- **ALL CELL PHONES AND SMART WATCHES WILL BE PUT AWAY FOR THE ENTIRE PERIOD\*.**

**~Academic Dishonesty:** Academic dishonesty includes, but is not limited to, cheating, plagiarism, and/or copying. Any such instances will result in a grade of zero for the assignment, parental, and departmental notification. This policy includes, but is not limited to, class work, homework, and labs. **IMPORTANT:** both the student copying and the one letting their work be copied will be penalized.

**~Calculators:** Each student will need a calculator for classroom work. A classroom set of calculators will be provided, but students should still have one to use at home. Students may not share their calculators with other students during tests. **IMPORTANT:** Cell phones may not be used as calculator.

**~Tutoring:** Cartersville High school also conducts content area, after school tutoring on Tuesdays & Thursdays from 3:45-4:45PM. If a student wants extra help or review while reviewing at home, I will have videos posted for each unit under the appropriate unit folder on Schoology.

**~Exam Exemption Policy** – See Student Handbook for the CCS Exemption Policy

**~Communication:** I will be available to both students and parents as much as possible throughout the school year. If there is a question or concern, please reach out and I will do my best to answer them. The school day hours, both in person and virtually are from 8:00 am to 4:00 pm. Communication during those times will be returned as soon as possible.

**Students** – The fastest way to reach me will be email or Schoology messaging. My email is [mhiggins@cartersvilleschools.org](mailto:mhiggins@cartersvilleschools.org).

**Parents** – Email is the best way to communicate with me. My email is [mhiggins@cartersvilleschools.org](mailto:mhiggins@cartersvilleschools.org).

**We communicate with students and parents (text messages, phone calls, and emails) through Teacher Messaging. Your contact information in Infinite Campus must be accurate for you to receive my messages. Please contact the front office to update your information.**

