**Chemistry Syllabus**

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**COURSE DESCRIPTION:** The Georgia Standards of Excellence (GSE) for Chemistry are designed to continue student investigations of the physical sciences that began in grades K–8. This curriculum will explore the concepts of structure of atoms, properties of matter, interaction and conservation of energy and matter, and the use of Kinetic Molecular Theory to model the motion of particles during chemical and physical changes. Students will also further develop skills including scientific processing, mathematical problem solving, and laboratory investigations. For more detailed standards, please go to the following document:  [**https://drive.google.com/file/d/1OePBp15042xRVbswmrUCzr1H7mUc9-Q5/view?usp=sharing**](https://drive.google.com/file/d/1OePBp15042xRVbswmrUCzr1H7mUc9-Q5/view?usp=sharing)

**Semester 1 Topics Semester 2 Topics**

**·** Lab Safety and Equipment · Kinetics and Equilibrium

· Atomic Structure

· Nature of Matter and Periodicity

· Chemical Bonding

· Intermolecular Forces & Properties of Matter

· Chemical Reactions

· Molar Relationships and Stoichiometry

· Thermodynamics

· Kinetic Molecular Theory & Phase Changes

· Gases

· Solutions

· Acids & Bases

**REQUIRED MATERIALS**

* 2” 3-ring binder (notes, practice, and labs)
* Notebook Paper
* Dividers (Set of 12)
* Pencil, Pen (blue or black ink)
* Scientific Calculator *(TI-30 series is preferred & can be used in future Chemistry & Physics classes)*
* Colored Pencils, Highlighters, Notecards
* Chromebook and charger

**TEXTBOOK:** *Introductory Chemistry* by Nivaldo Tro (provided as an online resource). *Replacement cost for hard copy-$106.38*.

**TEACHER EXPECTATIONS:**

***Academic Attitude****:* Students are expected to maintain high academic and personal standards as well as stay apprised of classwork expectations and their personal academic standing at all times. It is expected that the student will communicate his/her needs respectfully in person or via email.

***Laboratory Participation:*** Students are expected to participate in all lab activities they are present for. They should arrive prepared for each lab in the following ways:

* The student should have researched and recorded the safety precautions and hazards of each chemical being handled.
* The student should have read and familiarized themself with the lab techniques and procedures by reading that section prior to the lab.
* Students should wear only closed toed shoes and long pants as well as be prepared to tie back any hair that hangs below the top of the shoulder.

Failure to arrive prepared for the lab means that the student will not be able to participate and will be issued an alternate assignment for that day as well as be asked to relocate to the media center or another teacher’s classroom for his/her safety.

In addition to pre-lab preparations, students will be required to follow all general lab safety procedures at all times during in-person labs. Failure to follow proper lab protocol and safety procedures will result in an immediate dismissal from the lab and a zero for that assignment.

Students who are absent for a given lab may be provided an alternative assignment at the discretion of the teacher.

***Class Participation:*** Students are expected to participate in class discussions and assigned activities. Participation should take place with an open mind and without judgment or bias.

***Homework Participation:*** Students will have homework to complete to practice skills. It is expected that all assigned homework is complete BEFORE class on the day it is due. This ensures that the necessary preparations have been made to be an effective participant in any class conversations or assignments.

***Student Conduct:*** Students will be provided with a positive, engaging, organized, and challenging learning environment that promotes academic excellence. In return, **it is expected and required that VHS rules of conduct and classroom safety rules be followed at all times.** Failure to do so will result in parental communication and disciplinary action at the classroom level as well as potentially administrative discipline.

***Class Absences:*** The policies and procedures outlined in the VHS Student Handbook will be followed. If the student knows that he/she is going to be absent, please be sure to notify me in person or via email in advance so make-up work can be assigned accordingly.

***Academic Integrity:*** The academic integrity of courses at VHS is of the utmost importance; as such, cheating or academic dishonesty will not be tolerated.

* If a student cheats or plagiarizes on any assessment, the result is a zero as a placeholder until the student has had the opportunity to demonstrate learning on an alternate assignment. The teacher will make a parent contact.
* If cheating or plagiarism occurs on a major assessment, the student will be referred to an administrator for review. Cheating or plagiarism on a major assessment will also result in alternative discipline or in-school suspension. The ISS assignment will be progressively graduated if the offense is repeated.

**TUTORING AVAILABILITY:** Monday and Tuesday from 7:15 a.m. to 7:45 a.m. Additional opportunities will be provided during SOAR sessions throughout the semester.

**GRADING:** Grades will be updated weekly and available to both students and parents via the Infinite Campus portal. *\*This course includes a cumulative exam at the end of each semester.*

* *Major Assessments (45%)*
* *Minor Assessments (20%)*
* *Daily Work (15%)*
* *End of Semester Assessment\* (20%)*

**TEST RETAKE POLICY:**Students may retake two major assessments per semester, after completing the necessary remediation assignments to confirm proficiency of the material**.** \*\*Please be aware that a retake cannot replace a zero for a task which was never completed.

**TEST MAKE-UP POLICY:**Students requiring a make-up exam due to test day absences must schedule a date to take the test within 24 hours of their return to school. The date of the scheduled make-up must be no more than 5 business days from the date the student returns to school.

**CANVAS:** In order to ensure an equitable learning environment, **instructional materials and homework assignments will be uploaded to CANVAS.** Students should be familiar with how to navigate the online platform, communicate with their teacher, and submit assignments on time. If there are technological limitations, please notify the teacher.

**CHROMEBOOK POLICY:** All students are issued a district-provided chrome book for instructional purposes, student engagement, and student learning. Chrome book use is at the direction and discretion of the classroom teacher.

**SYLLABUS ACKNOWLEDGEMENT FORMS**

**Student and parent signatures for this syllabus and the lab safety acknowledgement statement should be returned to Mr. Watson no later than August 5th, 2025.**

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PRINTED STUDENT NAME PERIOD

**WATSON’S LAB SAFETY CONTRACT**

**GENERAL LAB SAFETY RULES**

➔ Follow all written & verbal instructions as provided.

➔ Wear proper eye/clothing protection at all times.

➔ Conduct yourself in a responsible & safe manner in the laboratory environment.

➔ Be knowledgeable of equipment, safety symbols, & techniques required for each lab.

➔ Know where/how to get help in an emergency, including the location of the first aid, safety shower, eye wash, fire extinguisher, and fire blanket.

\*\*Students must pass a lab safety quiz with an 80 or higher to be permitted to participate in lab activities.

**QUESTIONS**

1. Do you wear contact lenses? \_\_ YES \_\_ NO

2. Are you color blind? \_\_ YES \_\_ NO

3. Do you have allergies? \_\_ YES \_\_ NO If so, list specific allergies:

4. Is there any medical condition that I need to be aware of? If so, please list:

**STUDENT ACKNOWLEDGMENT**

I, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, have read, understand, and agree to follow the lab safety rules outlined above, located in the lab safety materials, and any others provided in the future. I will conduct myself safely & appropriately at all times in the lab environment. I understand that failure to do so may result in not receiving credit for the lab and/or an office referral.

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STUDENT SIGNATURE DATE

**PARENT ACKNOWLEDGMENT**

I, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, have read the information provided in the course syllabus and understand the policies, procedures, and expectations. I will support

Mrs. Lane’s efforts to ensure my student is successful in this class. I acknowledge that my student must abide by the lab safety rules as outlined above (also online) and any others provided by Mrs. Lane. I have contact information to communicate with Mrs. Lane if needed.

***Email: james.watson@hcbe.net Phone: (478) 218-7537***

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PRINT PARENT NAME PARENT PHONE #

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PARENT SIGNATURE DATE

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PARENT EMAIL #1 PARENT EMAIL #2