**Chemistry Syllabus**

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**Required Materials**:

 3-ring binder

 Scientific calculator

 Paper/pencil/pens

 Colored pencils

**Course Description:** The *Chemistry Georgia Standards of Excellence* are designed to continue student investigations of the physical sciences that began in grades K-8 and provide students the necessary skills to be proficient in chemistry. These standards include more abstract concepts such as the structure of atoms, structure and properties of matter, the conservation and interaction of energy and matter, and the use of Kinetic Molecular Theory to model atomic and molecular motion in chemical and physical processes. Students investigate chemistry concepts through experiences in laboratories and field work using the process of inquiry. Please see the back of this sheet for a general outline of this course. For more detailed information, go to

*https://www.georgiastandards.org/Georgia-Standards/Documents/Science-Chemistry-Georgia-Standards.pdf*

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| --- | --- |
| ***1st Semester*** | ***2nd Semester*** |
| * Atomic Structure and Nuclear Reactions
* Electrons
* Nature of Matter and Periodicity
* Covalent Chemical Bonding
* Ionic Chemical Bonding
* Intermolecular Forces and Properties of Matter
* Chemical Reactions
* Molar Relationships
* Stoichiometry
 | * Kinetics and Equilibrium
* Thermodynamics
* Kinetic Molecular Theory and Changes of State
* Gases
* Solutions
* Acids and Bases
 |

**Teacher Expectations:**

***Academic Attitude:*** This course will require daily preparation. Students are expected to maintain high academic and personal standards.

***Laboratory Participation:*** Laboratory work is an essential part of this course. Students will be required to follow all safety procedures at all times during lab. See attached lab safety contract for details of what is expected. **Failure to follow proper lab protocol and safety procedures will result in an immediate dismissal from the lab and a zero for that assignment.**

***Class Participation:*** Students are expected to participate in class discussion and activities.

***Student Conduct****:* Students will be provided with an organized, efficient, and challenging classroom 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.**

***Late work and Class Absences:*** Assignments are due on the assigned date, at the assigned time. If a student misses an assignment due to an absence from class, the assignment is due no later than the third day of the student’s return to class. It is the responsibility of the student to find out and turn in missed assignments no later than the time due. Online homework MUST be completed by cut-off. Excused absences will not count against exemption

***Academic Integrity:*** Students who cheat on an assignment or assessment will receive a zero as a placeholder until the student has had the opportunity to demonstrate learning on an alternate assignment. This is to include plagiarism in any form. Parents/guardians will be notified should their student lose credit for any class grade due to an honor code violation.

**Grading:** Grades will be updated weekly and available to parents and students via the parent portal. The *Semester Average* will be determined as follows:

Major Assessments 45% Minor Assessments (quizzes, labs) 20% Daily Work (homework, classwork) 15% Final assessment 20%

Students may re-take two assessment per semester, after completing tutoring/corrections. A re-test cannot replace a zero for a task which was never completed. This course includes a cumulative exam at the end of the semester.

**Important Resources**

**Google Classroom**

To encourage blended learning, online assignments will be posted weekly through Google Classroom. At least one Google Classroom assignment per week will be graded and entered in Infinite Campus. Students should be familiar with how to navigate the online platform, communicate with their teacher, and submit assignments on time.  If there are technology limitations, please notify the teacher

**Course: Chemistry**

\_\_\_\_\_I have read and will abide by the policies outline in the SYLLABUS.

\_\_\_\_\_I have read and will abide by the LAB SAFETY CONTRACT.

STUDENT NAME (PLEASE PRINT)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Student Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Parent Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Parent Phone: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

PARENT E-MAIL (PLEASE PRINT):\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Lab Safety Contract Signature Sheet**

**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:

**AGREEMENT**

I, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ , (student’s name) have read and agree to follow all of the safety rules set forth in the attached contract. I realize that I must obey these rules to ensure my own safety, and that of my fellow students and instructors. I will cooperate to the fullest extent with my instructor and fellow students to maintain a safe lab environment. I will also closely follow the oral and written instructions provided by the instructor. I am aware that any violation of this safety contract that results in unsafe conduct in the laboratory or misbehavior on my part, may result in being removed from the laboratory, detention, receiving a failing grade, and/or dismissal from the course.

Student Signature\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_

Dear Parent or Guardian:

We feel that you should be informed regarding the school’s effort to create and maintain a safe science classroom/ laboratory environment. With the cooperation of the instructors, parents, and students, a safety instruction program can eliminate, prevent, and correct possible hazards. You should be aware of the safety instructions your son/daughter will receive before engaging in any laboratory work. Please read the list of safety rules in the attached contract. No student will be permitted to perform laboratory activities unless this contract is signed by both the student and parent/guardian and is on file with the teacher. Your signature on this contract indicates that you have read the Student Safety Contract, are aware of the measures taken to ensure the safety of your son/daughter in the science laboratory, and will instruct your son/ daughter to uphold his/her agreement to follow these rules and procedures in the laboratory.

Parent/Guardian Signature \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_