

## STEM Institute Chemistry Syllabus

**Instructor:** Mr. Paul Thompson

Email address: [PThompson4@hsmse.org](mailto:PThompson4@hsmse.org)

**Course Overview:** This Chemistry course is the equivalent to an introductory or first year college level one-semester chemistry course that is provided to capable students in a high school environment. Students are expected to have a fairly strong background in mathematics chemistry involves numerical problem solving and word problem analysis both in the content course and the laboratory. The goal of this course to provide the student a foundation of knowledge on which to rationalize, summarize and predict the structure and properties of materials that make up chemistry. Students are encouraged to think independently and become an active part of the learning process. Students work homework problems for the class; this initiates discussion, questions, and awareness that various methods can be used for problem solving.

**Course Requirements:** Students are expected to be on time to class with their textbooks, notebooks, and calculators. Attendance is crucial. All labs are hands on labs. Written lab reports are due 2 days from completion; late labs have 5 points per day penalty.

### Course Policies:

- ❖ Bring required materials to class everyday: textbook, notebook, writing utensil, etc.
- ❖ Attendance and timeliness are required. If you have an excused absence, you will only have 3 days to make up the work unless other arrangements are made.
- ❖ Class participation is required. You must participate in class discussions, labs, and course work.
- ❖ **Horseplay in the lab will not be tolerated! Any behavior that may result in your own injury or the injury of others in the lab, will result in you being removed from the lab and receiving a zero on the lab assignment.**
- ❖ Be respectful of other students in the class. Do not disrupt others by talking while other students or the teacher is talking.
- ❖ **No cell phones or electronic devices are to be used at anytime during this class. If you are caught with any electronic device (not a calculator) out during a test, it will be considered cheating and you will receive a zero on the test.**

**Grading:****Semester average:**

Tests 20%

Quizzes 10%

Homework 20%

Midterm/Final 30%

Classwork/Participation/Citizenship 10%

Labs 10%

**Tutoring:** Available Monday-Friday mornings from 8:30 until 9:00.**Textbook:** Change, Raymond, and Overby, Jason. **General Chemistry, *The Essential Concepts***.**Chemistry Course Sequence (*Tentative*)**

#Days	Chapters and Content	Assignments
2	1 Introduction	To be announced...
2	2 Atoms, Molecules, Ions	To be announced...
3	3 Stoichiometry	To be announced...
1	Test Ch. 1-3	
2.5	4 Reactions in Aqueous Solutions	To be announced...
3	5 Gases	To be announced...
1	Midterm	
2.5	6 Energy Relationships	To be announced...
3	7 The electronic Structure of Atoms	To be announced...
2	8 The Periodic Table	To be announced...
1	Test Ch. 6-8	
2.5	9 Chemical Bonding 1: The Covalent Bond	To be announced...
2.5	Chemical Bonding 11: Molecular Geometry and Hybridization of Atomic Orbitals	To be announced...
1	Final	

## STEM Institute Chemistry

Dear Parent and Student:

I am very excited to have the opportunity to work with you this summer. Your signatures below will verify that you have read the course syllabus and honor code and agree to abide by these guidelines. Please feel free to contact me at anytime. E-mail seems to be the easiest and most effective way. My email address is listed on the front of the syllabus.

Sincerely,

Paul Thompson

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Parent/Guardian Signature: \_\_\_\_\_

Parent/Guardian email address: \_\_\_\_\_

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

Student email address: \_\_\_\_\_