Honors Chemistry I

Mrs. Masengil amasengil@mcminnschools.com

Planning 1:20-2:15 **263-5541**

COURSE DESRIPTION **Chemistry is a course that explores the properties of matter and the changes that matter undergoes. Students will investigate the following:**

Atomic Structure • Matter and Energy • Interactions of Matter • Properties of Solutions

Students should explore chemistry through inquiry, hands-on laboratory investigations, individual studies, and group activities. The students' experiences in chemistry should enable them to understand the roles of chemistry in their lives by investigating substances that occur in nature, in living organisms, and those created by humans. Studies should include both qualitative and quantitative descriptions of matter and the changes matter undergoes. Students should also practice the necessary precautions for performing safe inquiries and also appreciate the risks and benefits of producing and using chemical substances.

Honors Chemistry is designed to be taken by students who have good work ethics. The goal is to provide students with the conceptual framework, factual knowledge, and analytical/reasoning skills to deal critically with the rapidly changing science of chemistry.

INSTRUCTIONAL PHILOSOPHY

The primary goal of Honors Chemistry is to provide students with a challenging curriculum that focuses on: correct laboratory technique, proper laboratory reporting procedures, mathematical reasoning ability as it relates to relevant topics, and analytical skills as required by the scientific method.

COURSE GOALS

1. **Master the four chemistry curriculum standards.**
2. **Analyze raw data and information to prove or disprove hypotheses.**
3. **Students should read current event sources outside of class.**
4. **Students will use technology in the form of PowerPoint presentations based on research.**
5. **Laboratory and classroom safety will be stressed at all times.**

COURSE PROJECTS

1. **Students will use the scientific method to design experiments to prove or disprove hypotheses.**
2. **Students will prepare and present a presentation over a selected topic.**
3. **Use of the concept of density to analytically identify an unknown.**
4. **Students will prepare analytical lab reports to indicate experimental findings.**
5. **Students will regularly report current event findings.**

REQUIRED MATERIALS

- □ **pencils/pens**
- □ **3-ring binder**
- □ **notebook paper**
- □ **scientific calculator-does not have to be graphing**

Cell phones will not be allowed as a substitute for calculators!!!

CLASSROOM POLICIES

- **When the bell rings, you are tardy if you are not inside the door.**
- **Be prepared each day. If you have to borrow paper or pencil, do it before class.**
- **NO FOOD OR DRINK except water in clear bottles. This is a lab. No fast food cups.**
- **Cheating in any forms results in a "0". There will be no discussion about this.**
- **Stay away from my desk.**
- **Stay out of the lab area unless instructed to go there.**
- **Do not roam the room. Sharpen pencils and use trash before class starts.**
- **Act courteously to me and your classmates.**

Failure to observe classroom policies will result in a warning, writing assignment, and/or office referral depending on the severity of the infraction.

GRADING

Test grades count twice. Students will turn five assignments in at the end of the nine weeks period (5 Things) that will also count twice. All other assignments will count only once.

A 93-100	**B 85-92**
C 75-84	**D 70-74**

All Honors Chemistry I students will take the Chemistry EOC in the spring. It will count 25% of your second semester grade.

TOPICS TO BE COVERED

SEMESTER ONE	**matter & change**	**scientific measurement**
	physical/chemical changes	**atomic structure**
	chemical symbols/formulas	**chemical bonding**
	density	**isotopes**
	periodic trends	**scientific method**
SEMESTER TWO	**acids/bases**	**matter & energy**
	temperature	**atmospheric pressure**
	behavior of gases	**stoichiometry**
	solutions	**chemical reactions**

In the event of an absence, the student is completely responsible for getting discussion notes and initiating make-up work with the teacher.