

## HONORS CHEMISTRY 2014/2015

**Syllabus for:** Mrs. McDermott

**E-mail address:** [mcdeme@mcgill-toolen.org](mailto:mcdeme@mcgill-toolen.org)

**Course Description:** This course provides an investigation of the evidence supporting the modern model of atomic structure, bonding, molar ratios, kinetic theory and stoichiometry. Relationships involving mass, volume and energy are investigated. Emphasis is placed on quantitative reasoning used when determining molecular weight, percent composition, molar ratios, volumes and masses of reacting substances. Honors students participate in at least one approved science related extracurricular competition of activity. (Examples: Science Fair or any Science Team Competition).

**Textbook:** *Chemistry* published by Prentice Hall

**Supplemental Reading:** As assigned by the teacher

**Class Material Required:** Students will need to bring their textbook, a notebook with pockets, paper, a pen, a pencil, a flash drive and a scientific calculator to class each day.

**Course Outline:** (tentative)

Matter and Change

Scientific Measurement

Energy- Particles in Motion

States of Matter

Atomic Structure

Electrons in Atoms

The Periodic Table

Bonding - Ionic, Metallic and Covalent

Naming Compounds

Chemical Quantities

Chemical Reactions- Particles and Energy

## Stoichiometry

**School Grading Procedures:** refer to the Student Handbook

**Class Grading Procedure:** All homework assignments, lab reports, quizzes, and tests will be given a point value and averaged for a final quarter grade.

**Homework, extra credit, special grades:** Homework will be assigned regularly. **Late homework will not be accepted.** Extra credit will be offered as “mole dollars” which can be cashed in on tests for bonus points. All students will be given the opportunity to earn “mole dollars” by completing optional assignments. No individual extra credit will be given. If you don’t take the opportunity to earn “mole dollars” when they are offered, you are out of luck.

**Teacher Specifics:** Due to the nature of the course, absences should be avoided if possible. If a student is absent, it is the student’s responsibility to get all class notes, information and assignments. Students must arrange to make up any tests or quizzes missed within two days of returning to school. Failure to show up for a make up test or quiz will result in a zero.

The key to success in chemistry is to PRACTICE, PRACTICE, PRACTICE! Do all assignments and problems. If you don’t understand a concept, ask for help.

If you must use the restroom, please get to class before the bell rings and ask permission. There will be no bathroom passes granted during the lesson unless it is an emergency.

**Availability:** Extra help will be available after school on Monday through Thursday from 3:05 until 3:35.

### **Rules/Regulations:**

1. Students should come to class prepared to work everyday.
2. Students should respect the teacher, each other, and the property of the classroom.
3. Students should stay seated in their desks until dismissed by the teacher.
4. All other Handbook rules and regulations apply.

**Laboratory Rules will be gone over in detail. Failure to obey laboratory rules will result in a zero for the lab grade.**

