

Regular Chemistry
Grade 10 - 12
Highland Park Senior High School
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*****New Cell Phone Policy:** Per Highland Park Senior High School Administration, students will not be permitted to use their personal cell phones during instructional time. (See the HPSH website for additional information and consequences.)

*****iPad Policy:** Students must bring their iPad to *every class every day*. We will be using the iPads to varying degrees throughout this course.

I. Course Summary

Chemistry is a yearlong introductory laboratory course. Laboratory investigations, group projects, readings, homework assignments, presentations, papers, and exams are an integral part of this course. Critical thinking and problem solving skills are addressed on a daily basis. The International Baccalaureate (IB) learner profile will be followed helping students become *inquirers, knowledgeable, thinkers, communicators, principled, open minded, risk takers, balanced, caring, and reflective*. Minnesota Academic Science Standards and benchmarks for 9-12 Chemistry will be covered in the following units:

II. Units of Study

	<u>Name of unit</u>	<u>Approximate Duration of Unit</u>
Unit 1:	Nature of Science and Engineering	3 weeks
Unit 2:	Matter	4 weeks
Unit 3:	Atomic Structure and The Periodic Table	6 weeks
Unit 4:	Bonding	7 weeks
Unit 5:	The Mole	5 weeks
Unit 6:	Chemical Reactions	5 weeks
Unit 7:	Stoichiometry	6 weeks
Unit 8:	Solutions	3 weeks

III. Text and Methodology

Chemistry skills, content and concepts as well as organization, collaboration, critical thinking and reflection life skills will be practiced daily. Students will be expected to work collaboratively with peers on a daily basis during each learning task. The following textbook will be utilized in class as needed.

Introductory Chemistry A Foundation by Zumdahl, S., DeCoste, D (2008) Houghton Mifflin Company
Additional readings and learning tasks will be evaluated via many learning modalities including online demonstration of content mastery.

IV. Methods of Assessment

Summative Assessments will represent 70% of the total student grade for each semester of the course. Examples of summative assessment can include: exams, quizzes, projects, lab reports, essays, and presentations.

Formative Assignments will represent 30% of the total student grade for each quarter of the course. Examples of formative assignments can include: notebook checks, daily assignments, quizzes, readings and lab activities.

***Students will also engage in *formative assessments* almost daily to gauge learning progression. Scores for formative assessments will not contribute to a students' grade, rather they will inform instruction and differentiation that needs to happen for individual academic growth.

V. Chemistry Notebook

Students will be expected to maintain a chemistry notebook throughout the year. Students will be expected to bring their chemistry notebook to class daily to record notes, pertinent laboratory investigation findings and critical thinking ponderings. Notebook maintenance is subject to review by the instructor periodically.

VI. iPads and Schoology

Schoology will be used to deliver classroom materials to students and record academic progress. It is expected that students become familiar with how to access Schoology, view course updates and retrieve/turn in work. Digital resources will only be allowed to be accessed on a school issued iPad (**NOT a cellphone or other device**). Please be sure your iPad is charged and with you daily!

VII. Absences, Late Work and Re-takes

In the event of an absence, work (both summative and formative) is due the day student returns. Work assigned during the absence will be eligible for an extension. Communication is key! The teacher and student will agree upon the length of the extension.

Formative work may be turned in up to 3 school days late with a 10% reduction in score for each day late. After 3 days, work will not be graded. Summative work is not accepted late except for on a rare case-by-case basis when arranged with the teacher prior to the due date. **Students are eligible for one summative retake per quarter.**

(Please refer to the "Highland Park Senior High School Grading Policy" for further information).

VIII. Classroom Expectations

Be **Safe**, **Respectful**, and **Responsible**

Be on time with the required materials and prepared to work hard!

Daily Materials Needed:

- Pens and/or Pencils
- Notebook for **chemistry only** – everything will be secured in this notebook for class. Please no five subject notebooks.
- Pocket folder
- Scientific Calculator (graphing calculator **NOT** required)

Extra Assistance: PLEASE ASK ☺

It is better to keep up than to catch up! Before/after school help will be available by making arrangements with Ms. Hanson. Simply ask for additional help and Ms. Hanson will work with you to determine a day/time that suits your schedule.

Cheating, Plagiarizing, Stealing, Etc.: Will not be tolerated! Period!

Pass policy:

Passes will be issued at convenient times during class (ex. during work time, not during lecture) as long as the student is in good standing. Bathroom/locker passes can be found hanging by the classroom door and can be used as needed. *No passes will be given out the first and last ten minutes of class.*

IX. Chemistry Safety

Please **do not** bring food or drinks (water in a closed container is permitted) into the science classroom.

Safety rules will be discussed in class and must be adhered to in order to participate in the chemistry classroom. Failure to comply with these rules will result in a three step system as follows:

First Offense: Verbal Warning – Allowed to stay in lab with correction

Second Offense: Written Warning, Parents Informed – Removed from lab for class period, Allowed to return to lab next day, Missed lab day must be made up after school within 3 days

Third Offense: Conference with Admin/Parents – not allowed in lab until this occurs

***Students will be assessed summatively using the Flinn Safety Quiz and must pass with 80%+ prior to engaging in chemistry laboratory explorations.

***Please return the Flinn Scientific Safety Contract explored in class indicating you will be in compliance with proper chemistry rules. **Students will not be permitted to conduct laboratory investigations without the safety contract on file.**

