**Honors Chemistry**

Northwood High School

919 University Blvd., West

Silver Spring, MD 20901

20010 – 2011

**Northwood’s mission is to ensure that ALL students have the opportunity to succeed in a rigorous curriculum, including the completion of a learning experience in a college-level environment.**

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| Ms. Krista McClain | |
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| Office Hours: Gladiator Lunch Thursdays, after school by appointment | |
| Course Website: www.kristamcclain.com | |

**Course Description**

The goal of Chemistry is to instill in the students a curiosity about matter and its interactions; to initiate an organized, evidence-based approach to solving problems; and to recognize and apply the central significance of chemistry and its relationship to other sciences to solve real world problems.

At the conclusion of the course students should understand:

* Chemistry is recognized as significant in its application to other disciplines and the world
* Ideas are expressed symbolically, numerically, and graphically
* Behavior and properties of materials are organized, classified, and predicted utilizing periodic trends
* Mathematical relationships are interpreted and manipulated to model the real world
* Experimental investigations are designed, analyzed, interpreted, applied, and communicated through laboratory practice

AP vertically aligned standards to be emphasized in this course include:

* Acquiring data through experimentation and observation
* Ability to record and manipulate data
* Ability to design experiments
* Ability to read and utilize scientific literature
* Understanding and applying scientific language
* Applying math skills to science

**Course Content**

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| --- | --- | --- | --- |
| **Semester 1** | | **Semester 2** | |
| Classification of Matter | 3 weeks | Bonding | 4 weeks |
| Formula Writing | 3 weeks | Kinetic Molecular Theory | 3 weeks |
| Equations | 3 weeks | Thermodynamics and Kinetics | 3 weeks |
| Stoichiometry | 4 weeks | Solutions | 3 weeks |
| Atomic Theory | 2 weeks | Acids and Bases | 3 weeks |
| Periodicity | 2 weeks |  |  |

**Student Materials**

* 3-ring binder or folder
* PENCILS!!
* Scientific calculator

\*While we may use books in class periodically a book will not be issued to students for this course. If you feel strongly that you need a book for independent study or reference please see me and I will gladly issue you a book.

**Grading Policy**

Per MCPS policy grades are broken down in to the following categories and percentages:

* Formative 50% (Warm ups, Independent Work, Labs)
* Summative 40% (Tests, Projects, Quizzes)
* Homework 10% (completion only, may not be submitted late)

When using points or percentages, a teacher assigns a grade no lower than 50% to the assessment. If a student does not work on the assessment, the teacher will assign a zero. If a teacher determines the student did not attempt to meet the basic requirements of the assessment, the teacher may assign a zero.

Please Note: Extra credit will not be assigned. All students will be held accountable for knowing all material being assessed. Final semester grades are based on quarter and exam performance as well as grade trends exhibited by the student.

**Re-Teaching and Re-assessments**

Students do not always master the objective on the first try; therefore, students will have the opportunity to resubmit assessments for re-assessments given the following:

* Only formative assessments may be reassessed
* You may only reassess assignments during Gladiator Lunch
* Reassessments will only be accepted up to the day of the unit test

**Attendance and Make-up Work**

Daily attendance to class is necessary to achieve at the highest level. If you must miss class, it is your responsibility to make up missed work by the deadline. *If your absence is unexcused, you will NOT be permitted to make up work.* The following guidelines should be followed with regards to make up work:

* Because they are scheduled well in advance, quizzes and tests must be made up during the Gladiator Lunch period following the absence.
* Due dates for projects are clearly outlined when the project is assigned. If you are absent on a project due date, the project must be turned in the day you return to class.
* Other make up assignments can be found in the classroom in the make up work basket or on my website and must be turned in to me directly and ONLY during Gladiator Lunch. Per MCPS policy, you have three days following an absence to submit missed work. I ask that for my organization, you hold the work until the Gladiator Lunch period following this three day allotment. This Gladiator Lunch period will be the due date/deadline for all missed work due to an absence. If you have questions about when make-up work should be submitted, please see me right after class and I will be happy to help you figure it out.
* If you need laboratory data or observations for a missed lab, please consult my website. If you miss a lab you are still responsible for turning in the laboratory write up using the online data.

**Punctuality**

All students are expected to be on time. On time means in your assigned seat, quiet, and ready for class to begin *when the bell rings .*Any student who arrives late will be asked to wait outside until after the warm up and will not be awarded points for the warm-up that day.

**Due Dates/Deadlines**

* Due dates will be given for each assignment
* The deadline for any late work is the following Gladiator Lunch period, and will be deducted 10%
* If not turned in by the Gladiator Lunch period following the due date, the work will NOT be accepted for credit

**Edline/Course Website**

Part of being an active participant in this course includes checking your grade on Edline, and assignments on the course website frequently. It is my recommendation that you check Edline at least once per week, and the course website twice per week or as needed for make up work and assignments.

**Behavioral Expectations**

I only have one behavioral expectation…

**~~~RESPECT- your teacher, your peers, your classroom, yourself~~~**

**Consequences**

Verbal Warning

Student/Teacher Conference

Parent Phone Call

Office Write Up

**Hall Passes**

You may not leave the classroom in the first or last 15 minutes of class (NHS Policy). Hall passes will only be issued for emergencies. Please plan accordingly.

**Office Hours**

Science Gladiator Lunch is held on Thursdays. I will be available during that time for re-teaching/re-assessing, turning in make up work, or extra help. All students are welcome at Gladiator Lunch but you may be **required** to attend by me or your administrator if:

* Your grade is below a C
* You are missing wok that can still be made up

I am around nearly every other day during lunch. If you do not need to attend Gladiator Lunch for another subject and my door is open, you are always welcome in my room. Other office hours are by appointment only. If you would like to meet after school, please see me during lunch to make an appointment.