



Syllabus

Course: Chemistry

Year: 2017-2018

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Office hrs/ Availability: Every day after school and by appointment except meeting days	Office hrs/ Availability: Every day after school and by appointment except meeting days	Office hrs/ Availability: Every day after school and by appointment except meeting days

Course Description/Overview: Chemistry is taught in an interdisciplinary manner, that is to say that all other classes will be supported. Therefore, you can expect to read, write, perform math calculations, do library research, etc., along with lectures, note taking, lab work, homework, quizzes, tests, and class participation. Lab work in chemistry is evolving and now requires more student input in the form of inquiry, where students design an experiment, make a claim, record evidence, and defend conclusions by scientific reasoning. The labs in Chemistry will frequently follow this model. **Instructional methods:** include projects, lectures, activities, and media. Assessments include benchmark assessments, quizzes, projects, and semester finals. **Recommended Background for Success:** Successful completion of Algebra 1, and basic laboratory skills

Course Units and Summative Assessment Agenda:

Semester 1

Unit 1- Introduction to Matter

Chapter 2- Analyzing Data

Chapter 3- Matter – Properties and Changes

Chapter 10- The Mole

Chapter 12- States of Matter

Unit 2- Atomic Theory

Chapter 4- The Structure of the Atom

Chapter 5- Electrons in Atoms

Chapter 6- The Periodic Table and Periodic Law

Unit 3- Chemical Relationships

Chapter 6- The Periodic Table and Periodic Law

Chapter 7- Ionic Compounds and Metals

Chapter 8- Covalent Bonding

Unit 4- Chemical Quantities

Chapter 10- The Mole

Semester 2

Unit 5- Chemical Reactions

Chapter 9- Chemical Reactions

Unit 6- Stoichiometry

Chapter 11- Stoichiometry

Unit 7- Properties of Gases

Chapter 13- Gases

Unit 8- Solutions, Acids & Bases

Chapter 14- Mixtures and Solutions

Chapter 18- Acids and Bases

Unit 9- Kinetics & Equilibrium

Chapter 16- Reaction Rates

Chapter 17- Chemical Equilibrium

If time: Unit 10- Nuclear Chemistry

Chapter 24 – Nuclear Chemistry

Required Materials: Pencil, pen, paper, notebook for chemistry only (i.e., nothing else goes in it!), scientific calculator. It is highly recommended that you purchase a **scientific calculator** for your problem calculations. It is not the teacher's responsibility to supply you with a calculator.

Textbook: ** We will study from the following book: “Chemistry: Matter and Change”, Glencoe, 2013

Additional Course Information:

CLASS RULES: 1. Show respect at all times.

2. ** Arrive on time with your notebook, pen, and a pencil.
3. Stay on task.
4. The only allowable electronic device is a calculator. (Cell Phones must be off and put away.)
5. You may bring only spill proof beverage containers into class.

CONSEQUENCES

1st offense: Warning (Verbal and/or written).

2nd offense: Take-a-break sheet

3rd offense: Referral and parent contact.

Grading: **Your grade will be based the following: 80% Summative (50% Tests and quizzes (normally at the end of every other week), 30% group work (cooperative activities, disciplinary literacy activities, and labs)), 20% Formative (10% homework, 10% class participation (Learning Targets, Warm-Ups, Cool Downs, Class Activities)) *Grading modifications will be made for students with IEP or 504 plans as directed by the plan.*

DUE TO CHANGES IN THE GRADING POLICY ALL TESTS, QUIZZES, AND GROUP WORK MUST BE COMPLETED AND TURNED IN TO RECEIVE A PASSING GRADE FOR THE QUARTER.

Your final grade will be based on your level of achievement on the learning targets based on the following rubric:

Level Description

7-8	Demonstrates excellent mastery of the Learning Target
5-6	Demonstrates substantial mastery of the Learning Target
3-4	Demonstrates adequate mastery of the Learning Target
1-2	Demonstrates limited understanding of the Learning Target
0	Does not meet the Learning Target

Grading Scale:

Final Grade Scale	
A	93% or more
A-	90% - <93%
B+	85% - <90%
B	80% - <85%
C+	75% - <80%
C	70% - <75%
D+	65% - <70%
D	55% - <65%
F	50%

Assessment/Group Work Grades:

Rubric Level	Translation into Gradebook
8	10.0/10
7	9.0/10
6	8.5/10
5	8.0/10
4	7.5/10
3	7.0/10
2	6.5/10
1	5.5/10
0	5/10

Missing & Late Work: If you are absent, it is your responsibility to find out what you missed. You will have one week from the time to you return to class to make up any work that you missed. **The deadline for all work is one week after the Due Date for partial credit.**

Extra Credit: Occasionally the opportunity for extra credit will present itself, and I will let you know of those opportunities at the proper time. Extra credit cannot be used to raise your grade more than one letter.

Re-Learning and Retakes: If you do not meet the learning target for an assessment, you will have to retake it. You will have one week after receiving feedback on an assessment to retake it. The latest grade will be the new grade. You must provide evidence of relearning the material. This can only be done outside of class. Schedule a time with the teacher to make a plan for retaking a test/quiz.