Great Oak

High School

# Course Syllabus for Chemistry

WELCOME to Chemistry at Great Oak High School. To make this term the most productive and wonderful time in your life, plan to attend all classes, do the work, activities and labs, and join in school plans, field trips, guest lecturers and extracurricular activities.

Please read the following information. If you have any questions now or throughout the year, please contact me.

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###### Great Oak High School

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The following information is critical to your success in this class. Please pay close attention to the details.

1. **Course Structure** – In Chemistry we will study the structure of the atom, how elements are organized on the periodic table, the interaction of atoms from the formation of compounds to the reaction of acids and bases, properties of solids, liquids and gases, and stoichiometry. This class will emphasize the practical aspects of chemistry in every day life as well as provide a solid foundation in problem solving for further study.
2. **Chemistry demands a lot from students**. You will be asked to apply many high-level thinking skills and do a lot of individual problem solving. All I ask is you try to step up, do not give up and get help (from me, from classmates, from a tutor, etc.) Your reward is knowing you did your best and worked your absolute hardest.
3. 1st Semester Topics
4. Matter and Change
5. Measurements and Calculations
6. Atoms: The building Blocks of Matter
7. Arrangement of Electrons in Atoms
8. The Periodic Law
9. Chemical Bonding
10. Chemical Formulas and Chemical Compounds
11. Chemical Equations and Reactions
12. 2nd Semester Topics
13. Stoichiometry
14. Physical Characteristics of Gases
15. Molecular Composition of Gases
16. Liquids and Solids
17. Solutions
18. Aqueous Solutions
19. Acids and Bases
20. Titrations and pH

**V. Attendance / Tardy Policy**: Attendance is expected and required unless excused. Each student is to be in his or her assigned seat ready to work when the bell rings. The school-wide tardy policy will be enforced. You need to be in class for daily instruction or your grade will be affected. You will be allowed to make up all work due to EXCUSED absences. It is your responsibility to find out what needs to be made up. Please check the monthly calendar located on Mrs. Z’s web page and on the white board in class for daily assignments. Make up labs will be completed during a scheduled time with the instructor. Missed work handouts may be obtained from a container in the back of the classroom.

**VI. MATERIALS**:

A. The textbook is “World of Chemistry” by Zumdahl

 (Replacement cost is expensive. Please keep in good shape and leave at home for safe keeping. Place a book cover on it. Books are used as reference material and will be a resource for nightly studying and homework. There is a classroom set of textbooks about Biotechnology we will also be using.)

B. Very good laboratory equipment and facilities. Please treat with the utmost care. You will be charged for damaged equipment or wasteful use of materials. **Take care of your den**!

C. You will need to provide the following on a daily basis:

1. Your Binder – A binder is required with notebook paper. Other recommendations include a ruler, calculator, colored pencils, glue stick, highlighter and scissors.

2. Pencils (#2) and Pens (Blue or Black ink); possible small hand pencil sharpener

3. Science Notebook (Composition Book)

4. Technological knowledge and proper usage with calculator and/or cell phone is helpful.

5. Ruler, Glue stick, Colored Pencils, Scissors, Highlighters and White Board Markers help success.

6. A sense of humor and patience when dealing with instructor. Please handle with care.

1. **COURSE PROCEDURE**: Each unit of study focuses on a particular aspect of Chemistry. In each unit, you will take lecture notes, complete quizzes, keep a science notebook, complete homework assignments, take a prep test and a unit benchmark, and participate in class activities and unit projects.

**A.** **Assignments / Activities** / **Homework / Science Notebook (25%)** - There will be class assignments based on each standard covered. There is approximately 2-4 hours of homework assigned per week. This includes reading of the chapter(s), answering questions, completing Prep Tests and specific Interventions for areas of study to avoid confusion and frustration. Points will be deducted for sloppy work or will not be accepted until it is redone. proofread all assignments before submitting for points. Take pride in your work. Assignments that are unreadable can not be graded. You will be given a grading rubric for any project and Lab Report Guidelines distributed at a later time. There will also be numerous writing assignments given throughout the term. Your Science Notebook will include warm up questions completed at the beginning of class every day. The Notebook will include laboratories, investigations and lecture notes. Most assignments will be placed in your Science Notebook.

**B. Laboratories (25%)**

**C. Test Preps / Quizzes / Benchmarks / Final (50%)**– Assessments will be given for each unit. The test may be composed of multiple choice, True/False, matching, essay and lab questions. Other performance and project assessments will be incorporated into the class. Prep-tests and quizzes will be given throughout each unit of study. (Make-up procedure for missed tests must be made up on your own time. Please make arrangements with the instructor.)

1. **Grading and the California Science Content Standards.** Grades will be based on student knowledge of the California State Science Standards in Life Sciences. To facilitate student understanding of these concepts, each unit may have many types of assignments associated with it: **Homework,** **formative assessments** (e.g. quizzes), **laboratory activities/ investigations**, the **science notebook**, unit **projects** and **daily class assignments**  (warm ups, writing assignments/journal, case studies, sample autopsy reports, readings, homework etc.), **unit tests** and a **Midterm** and **Final** (summative assessments.)
2. **The grading scale will be as follows**:

A Achieving at least 90% - 100%

B Achieving at least 80% - 89%

C Achieving at least 70% - 79%

F Not Pass – 69% or below

**Progress Reports** will be sent home anytime a student’s work drops to a “C.” Progress Reports require a parent signature and need to be returned to the instructor. Teacher-generated grade reports will usually be sent home after the completion of each unit. Grade reports with below a “C” require a parent signature and will be returned to the instructor the following day.

Students are expected to follow the Behavioral Expectations as listed above. When a student follows the rules, positive rewards will be given. If a student does not follow the expectations, consequences are given.

***Positive Rewards*** could include –

Parent Phone Call to congratulate Class Awards Recognition

Certificates Class Recognition

Consequences / Discipline Policy -

1st Offense: Verbal warning.

2nd Offense: Student-Teacher Conference

3rd Offense: Teacher Phone Call

4th Offense: Detention Assigned

5th Offense: Parent-Teacher Conference

6th Offense: GOHS Discipline / Office Referral

* Consequences sometimes do not follow exact steps depending on the action, student attitude and communication with parent.

SCIENCE EXPECTATIONS

**Student Expectati**

* Be responsible for your actions (Examples: If you make a mess, clean it up. Respect the facilities.)
* Keep it clean – work area and language.
* Be kind to one another; Respect each other and the learning of all.
* My right to teach and the student right to learn.
* Electronic devices put away
* Be on time.
* Be attentive and engaged; follow directions. The bell does not dismiss you, I do

**Teacher Expectations**

* Provide a scientifically-rich class and activities
* Facilitate student understanding and learning
* Let all be aware of academic progress
* Respect the student’s right to learn
* Follow school rules (4 Non-Negotiables)
* Fun!

Final Note: I am looking forward to an exciting semester! Your participation in class is crucial. Learning is a dynamic process and it can’t happen without both of us working together. If you need help, please let me know. Above all, curiosity is appreciated. So, ask lots of questions. Enjoy!