

Chemistry ***Course Overview***

COURSE DESCRIPTION/OBJECTIVES

Chemistry is a one-year course offered at the college prep level. The prerequisite is successful completion of Algebra I. (Concurrent enrollment in Algebra I is acceptable with prior instructor approval.) Students will learn to understand and apply fundamental concepts of chemistry through lectures and discussions, laboratory and independent problem-solving activities, teacher demonstrations, text and supplementary readings, and homework. They develop analytical and scientific thinking skills and quantitative, mathematical aspects of problem solving in chemistry as the chemical structure and interactions of matter are presented to them.

From Mr. Grady: Chemistry is a whole lot of fun! It is also a whole lot of hard work. If you work hard at it, you should find the experience very rewarding, as you will leave my class with a better understanding of the world around you every day of your life. Chemistry challenges every student, and expands every student's horizons. Work hard and have fun and you will do very well.

By the end of the course, students will be able to demonstrate and apply knowledge of:

- Chemistry study skills and lab skills
- Scientific practices in chemistry
- Matter and energy
- Atomic structure
- Electron configurations
- The periodic table
- Properties of the elements
- Chemical bonding
- Molecular shape
- Chemical reactions and equations
- The mole
- Stoichiometry
- Thermochemistry
- Gases and gas laws
- Intermolecular forces
- Solutions
- Chemical equilibrium
- Solubility
- Acids and bases
- Oxidation and reduction
- Electrochemistry*
- Kinetics
- Thermodynamics
- Nuclear chemistry*

*If time permits.

TEXTBOOK

Chemistry: Connections to Our Changing World. There is also a laboratory manual for the course.

SUPPLIES

Please bring the following items to class *daily*:

- ✓ Textbook.
- ✓ Writing utensils-Pens and pencils.
- ✓ 3-ring binder with dividers to hold all handouts, homework, labs, and notes.
- ✓ Scientific calculator or calculator that has scientific notation and logarithmic functions (log, ln).

EVALUATION**Grade Breakdown**

Notebook	5%	*Second Trimester-Notebook not graded	
Written Report	10%	*Second Trimester-Semester Project	15%
Final Exam	15%		
Homework	15%		
Labs	25%		
Exams	30%		

HOMEWORK

1. Homework will normally be due two days after being assigned; for example, homework assigned on Monday is due Wednesday. In case of absence, students will have one additional day for every day absent to turn in assignments. Note: This does *not* apply to long-term assignments (i.e. lab reports, term paper) given before an absence.
2. Homework is due two days after it is assigned to give you the opportunity to see me for help. *Take advantage of this opportunity frequently!*
 - *No late work will be accepted.*

LABS AND EXAMS

1. Lab reports will be turned in for each of the assigned experiments, and must follow the guidelines that will be specified for lab reports. Labs will normally be due one week after completion of the lab work. Late labs are *not* accepted.
2. Exams or labs missed due to absence can be made up by scheduling with me. *It is your responsibility to speak to me the day you return to do so. Labs or exams that have not been scheduled within one week of your return to school will be recorded as a zero.*

PROCEDURES

- Be in your seat, working on the assignment posted on the board or overhead, as the bell rings. The beginning of class is an individual, talk-free work time.
- Cell phones need to be turned to silent/off and put away. Confiscated phones may be picked up at the end of the day for the first offense, and in the principal’s office for further offenses.
- Include full heading on all assignments:
 Name
 Date
 Period
- Turn in all assignments on time. **There will be no credit for late work!**
- Call a classmate the same day you are absent to find out what information and assignments you missed. Check with Mr. Grady for any missed handouts.

Name _____ Phone # _____
 Name _____ Phone # _____

- Speak one at a time, listen to your classmates, when they speak, and use appropriate language.
- Mr. Grady will dismiss you, not the clock.

I reviewed the overview and procedures with my son/ daughter. I commit to being actively involved in my student’s education and will contact Mr. Grady at (patrick.grady@district6.org), or (541) 494- 6260 with questions or feedback.

Parent/ Guardian Signature

Date

I reviewed the overview and procedures. I commit to putting my best effort into this course. I take full responsibility for my own learning and will stay focused during class, ask questions, and attend tutorial when I need extra help.

Student Signature

Date

Please keep this signed copy in the front of your notebook.

