Junior Chemistry
Text: Chemistry

Course Guidelines and Learner Expectations

Course Description: This course is designed to introduce the study of elements and how they are arranged (periodically) in a package called chemistry. Chemistry is sometimes thought of as being intimidating, but am going to try and make it as not intimidating as possible. There is math involved in some aspects, but it should not be too difficult of mathematical concepts and I am available for help when needed.

Objectives: By the end of the year, you should be able to:

- Incorporate prior knowledge and making connections to what you already know
- Explain the periodic table in detail (how it is set up - periods/groups, columns, rows, what each of the numbers represents in each of the "boxes")
- Know how atoms are "built"
- Look at the facts for an element and draw it out in a 2D picture and be able to describe it
- Define everyday events that are shrouded in chemical reactions (ex. Rust is the oxidizing of iron into iron oxide)
- Work confidently in a lab setting, and know the different tools required to do so
- Know the different elements and polyatomic ions
- Name simple compounds (nomenclature)
- Balance a chemical equation
- Perform dimensional analysis conversions
- Know how to make new equations based on what type of reaction occurred
- Use the mole/Avogadro's Number to do simple molarity calculations along with some stoichiometry problems

Required Materials:

- Textbook: Chemistry
- Notebook to take notes in
- Three Ring Binder or Folder to hold handouts/papers
- Calculator

Safety: Chemistry lab work can sometimes involve potentially hazardous substances and objects. For that reason, safety is a top priority. I will review any hazards associated with a lab with the class. There is no margin for error, so failure to prepare for a lab, improper use of safety equipment, or disregarding safety instructions will result in removing the student from the lab area and a **zero** for the lab. Repeat offenses will result in detention. Eating/Drinking is **NEVER** allowed on or near a lab table. There is no food or drink allowed in the lab area of the classroom – **EVER**.

Grading: This course is graded on a weighted system. Homework (5%), classwork (10%), and quizzes/minor labs (15%) are worth 30% of your grade as they are formative assessments. Tests (35%) and major labs/projects (35%) are worth 70% of the grade as they are summative assessments. **Do know that there are no retakes and no late work is accepted. NEW THIS YEAR: If your name ISN'T on your paper, it's a zero. I'm NOT chasing work.** It is YOUR responsibility to put your name on your paper. If work is illegible, it's a zero.

Throughout each quarter, grades are uploaded at least twice a week onto the school's online grading program, Web2School. I strongly suggest that you keep track of your grade there.

Homework - Homework will be assigned nightly and checked routinely for completion and/or effort. The purpose of homework is to supplement and reinforce classroom activities. You will need to read at home to prepare for the next class. There will be homework quizzes based on the readings from the textbook. These are NOT pop quizzes, you will know when the homework quiz is going to happen. You may use any notes you took while reading for these homework quizzes. Homework will also include problem solving, worksheets, and scientific observations. Unless specifically told otherwise, homework must be handed in before the start of class in order to receive full credit. Homework will not be accepted once it has been reviewed in class. I do not expect perfection on homework, but I expect you to try to answer every question. If you do not understand an assignment, you are probably not alone, **so ask questions!!**

Labs/Projects – All lab write-ups must be neat, complete and written according to the lab format, which will be given to you. Do not lose the directions for writing lab reports; you will be using them all year. You will be expected to make up any missed labs due to absences.

Quizzes - These will never be "pop" quizzes. You will always have advanced notice.

Tests - Tests consist of a variety of multiple choice, matching, fill-in the blanks, true/false, short answer, labeling of diagrams, and essays. To do well on my tests, you must study your notes. Any missed quizzes or tests must be made up no longer than 1 week after the original testing day. A zero will be entered in the grade book until the test is made up. If the test is not made up within 1 week, the zero will stand. All tests will be scheduled **at least two days** in advance and I will give you a guideline for material that will be covered on the test.

Absences: If you are absent, it is **your** responsibility to find out what you missed and to obtain notes, handouts, and assignments **from the website**, a fellow student, or as a LAST resort, the teacher. Generally, you will have 1 week to make-up work missed during an absence. It may be necessary for you to meet with me after school or in a free period to cover the material. If you are absent on the day of a test or quiz, you are expected to make it up the **NEXT DAY YOU RETURN**.

Late Work: Any assignment not turned in **by 2:30 PM the day it is due** is considered late and will receive a zero. If you are absent the day an assignment is collected, test or quiz is taken, a **ZERO** is put in the grade book. Once you hand in the missing work from an absence, the zero is removed. There are no late deadlines.

Extra Help, Office Hours, and Contact Information: I will be available for extra help Mondays and Wednesdays until 2:45 PM, Learning Lab every day, and other times by appointment. Make use of this time. I am more than happy to help you if you have questions or problems with anything we are working on.

I am available by phone at the school's phone number: (207) 425-2811
A better way to contact me is through e-mail at: smossy@sad42.us

I have a website where you can find all assignments, worksheets, review sheets, etc:

www.mossyscience.com

It is STRONGLY recommended that you check out the website to keep on top of missed assignments, etc.

Quick Syllabus Overview (subject to change at any time):

Quarter 1:	Quarter 2:	Quarter 3:	Quarter 4:
Lab Safety & Equipment	Nuclear Chemistry	Nomenclature	The Mole
Matter & Change	Electrons	Chemical Bonding	Stoichiometry
Measurements & Calc	Periodic Laws	Equations & Rxns	Gas Laws
Atomic Theory			Equilibrium

These are only the topics. Each topic will have several activities and hands-on labs that are associated with them. We will most likely **NOT** be going in the order of the book, so pay attention to the page numbers from the book for the readings.

Junior Chemistry – 2025-2026

STUDENT'S NAME: _____ (please print)

PARENT or GUARDIAN NAME: _____ (please print)

HOME PHONE: _____

PARENT or GUARDIAN E-MAIL (for monthly newsletter):

_____

I prefer to be contacted by (please circle one): HOME PHONE E-MAIL

My student has access to the following at home (please circle all that apply):

PRINTER COMPUTER INTERNET CELL PHONE

I have read and understand the course expectations and guidelines. Safety is essential. I understand that a failure to follow safe practices in the laboratory may lead to a grade of **zero** on the lab and/or detention for multiple violations.

If there are any questions about an assignment, project, or lab, I understand that I can call, check the website, or e-mail and expect a prompt response from the teacher.

Student's Signature: _____

Parent/Guardian's Signature: _____

Date: _____