

Riverside High School



Honors Chemistry Syllabus

Course Description

This course is an in-depth study of the fundamentals of chemistry, such as atomic structure, bonding, and chemical reactions. Problem solving skills, mathematical and otherwise, are stressed, so the student should have strong math skills, and be comfortable working with word problems. Work outside the classroom includes assigned homework and lab reports, but the course also requires the student to independently review class notes, read the text, and take initiative to ensure understanding of topics and theories.

Topics By Quarter

Quarter 1

- Physical and Chemical Changes
- Periodic Table
- Density
- Measurements
- Significant Figures
- Scientific Notation
- Structure of the Atom
- Isotopes
- The Mole

Quarter 2

- Electron Configurations
- Periodic Properties and Trends
- Chemical Bonding
- Lewis Structures
- Molecular Geometry
- Hybridization
- Intermolecular Forces

Quarter 3

- Balancing Equations
- Types of Chemical Reactions
- Predicting Products of Equations
- Activity Series
- Oxidation-Reduction Reactions
- Stoichiometry
- Gases

Quarter 4

- Solutions
- Ions in Aqueous Solutions/Solubility
- Acids and Bases

Resources Used to Enhance Student Education May Include:

- CALM, Google Classroom, Brightstorm, Khan Academy

Required supplies

1. 1-1.5" Three Ring Binder
2. Pen, Pencil, Paper

Attendance:

Attendance is critical as many topics in chemistry build on those previously learned. Students who miss class for any reason are responsible for all work and information missed.

Homework:

Homework will consist of worksheets, packets, and CALM. Homework will be collected and graded based on correctness and completeness. All CALM questions must be completed or a grade of zero will be earned. Homework will make up 10% of your grade. The student is responsible for getting any work missed due to absence. No credit will be given for any chapter's assignments submitted after that chapter's test.

Laboratory:

Students who are absent on the day of a lab must make arrangements to complete the lab within one week of the lab. Labs that are not made up within one week will be recorded as zeros. No credit will be given for lab work if the student does not actually perform the lab work. No credit will be given for any chapter's labs submitted after that chapter's test. Labs make up 10% of your grade.

Quizzes and Tests:

Tests will be given at the end of each unit. Quizzes may be given throughout the course. They will vary in style including multiple choice, short answer, problem solving, and essay questions. It is the student's responsibility to make up any missed quiz or test. If a student is absent on the day of a test or quiz, he/she will take the test or quiz on the day he/she returns. Once turned in, a test is considered complete. Questions or pages left blank cannot be done at a later time. If the student is seen with any electronic device other than a teacher approved/provided calculator, it will be assumed the student is engaging in academic dishonesty and a grade of zero will be given for the assessment. Quizzes, chapter tests, and quarter tests make up 80% of your grade.

Grading Policy:

Grades will be based on a point system. Students will receive points for homework, class work, laboratory work, quizzes, and tests. The percentage grade will be determined by dividing total points by the points possible, applying the weights for assignments given above, and applying the percentage to the following scale. There is no extra credit, and grades are not rounded in the event a grade is close to the next highest grade.

Grading Scale

A	=	100-90.0%
B	=	89.999-80.0%
C	=	79.999-70.0%
D	=	69.999-60.0%
F	=	59.999-0.00%

Getting Help:

Everyone needs help with chemistry at some point. Chemistry is a subject that builds on itself, and early concepts become building blocks for later concepts, so ensuring understanding and asking questions as soon as any confusion occurs is critical. I am available to help at the times listed below. If help is needed any other time, contact me using email or google hangouts.

- Before school - Every Day
- Block Two - Black Days
- Block Four - Gold Days
- Advisory - Fridays

Parents: Email works best for me to help you with any concerns.