INTRODUCTORY CHEMISTRY

COURSE OBJECTIVE

To build students' understanding of Chemistry for an academic and individual future. The class will accomplish this through using a traditional approach to Chemistry using an AP textbook to guide the progression of class, while building foundational tools for understanding chemical processes. Labs will be used to bring a hands-on approach and to stimulate and grow a student's interest and knowledge. The course will be rounded out by building a student's connection to chemistry in their everyday life from relatable processes from biology, the environment, and how industry and technology build the modern lifestyle.

COURSE FORMAT

Using a traditional lecture style class accompanied by online and print resources to allow students to access information through visual, audible, reading, and hands-on activities. The class will also use laboratory investigations and a diversity of media to expand on the subject. Media forms used will involve documentaries, scientific journals, mass media, and popular books. Projects will be used to allow students to examine the scientific process in-depth. Quizzes and tests will occur frequently to test students' knowledge and prepare students for the rigor of college. Retake option is available.

Text Book: Chemistry: The Central Science, AP Edition

COURSE PREPAREDNESS

Arrive to class with a notebook and writing utensil (colored pencils/pens are recommended as well) daily. Taking notes on lecture materials and labs are highly encouraged in notebooks. It is the preferred method for note taking, computers/tablets are not acceptable. Computers will be used in class for research, projects, and composing assignments.

TARDY & ABSENCES

It is your responsibility to be at class on-time. If you have an excused absence or tardy, please let me know 24 hours in advance if possible. Missed classwork will be your responsibility to make up—come to me outside of instruction time to find out what you missed. Assignments are expected to be due on the scheduled due date, unless otherwise discussed with me.

TECHNOLOGY

The use of computers, tablets, cell phones, etc. are not permitted in class unless otherwise specified by the instructor.

LEARNING SCHEDULE

Week	Subtopics	Assignments
1	Intro, Units, and Measuring	*Basic Measurements with Lab Equipment*
2	Periodic Table	*Get to Know the Elements*
3	Atomic Structure	*Coloring Sheets*
4	Molecules and Ions	*LEGO Molecule Building*
5	Stoichiometry	*Basic Chemical Reactions*
6	Chemical Reactions	*Basic Chemical Reactions (2)*
7	Aqueous Reactions	*Precipitation Experiments*
8	Thermochemistry	*Heat In, Heat Out*
9	Electronic Structure	*None*
10	Periodic Properties and Elements	*None*
11	Chemical Bonds	*None*
12	Chemical Bonds, Continued	*Making Molecules*
13	Review	*None*
14	Gases	*DIssolved Gases*
15	Liquids	*None*
16	Solids	*None*
17	Solutions	*Advanced Precipitation*
18	Chemical Equilibrium	*None*
19	Acids and Bases	*None*
20	Acids and Bases Continued	*Finding Neutral*
21	Chemistry of the Environment	*Water and Soil Chemistry*
22	Chemistry of the Environment Continued	*None*
23	ElectroChemistry	*None*
24	Nuclear Chemistry	*None*
25	Review	*None*

GRADING

Grades will be calculated based on participation, homework, projects, in-class work and labs, and quizzes and tests.

The scale is the traditional 10% scale:

A=100-90, B=89-80, C=79-70, D=69-60, & E=59-0

Participation = 10%
HW = 20%
Labs = 30%
Projects = 15%
Quizzes & Tests = 25%

LATE POLICY

All work turned in late is subject to a daily 10% reduction in grade.