

Advanced / AP Chemistry Course Expectations

Mr. Segulin – Room B123

Classroom Rules:

1. FOLLOW DIRECTIONS AND PROPER LAB SAFETY PROCEDURES.
2. BE IN THE CLASSROOM, AND BE **SEATED** WHEN THE BELL RINGS.
3. DON'T INTERRUPT WHEN SOMEONE ELSE IS SPEAKING.
4. RESPECT OTHERS' PROPERTY – If it's not yours, HANDS OFF!!!
5. WORKING AT LAB TABLES IS ONLY PERMITTED AT DESIGNATED LAB TIMES.
6. FOLLOW ALL KENSTON HIGH SCHOOL RULES.
7. CELL PHONE POLICY:
 - ❖ Cell phones for personal use are not permitted. Proper cell phone etiquette is expected.
 - ❖ Each day, every student will be required to store his/her cell phone in the hanging storage chart. The phones will be kept here until the end of class. If a student refuses to surrender his/her phone, he/she will be referred down to the office immediately.

Materials:

The following materials will be required for this class:

1. Pen and pencil
2. Lined filler paper (college ruled)
3. Graph paper
4. Two 3-ring binder with folders (one for your notes and one for use as a lab notebook)
5. Scientific or graphing calculator
6. Textbook: *Chemistry: The Central Science, Eleventh Edition*; Brown et al; © 2018.

Course Syllabus:

A chapter syllabus will be given to you at the beginning of each new chapter. This will provide you with advanced notice of homework and review exercises, lab activities, and approximate quiz and test dates when possible. Here is the list of chapters we will be covering throughout this course.

- Chapter 1 Introduction: Matter and Measurement
- Chapter 2 Atoms, Molecules, and Ions
- Chapter 3 Stoichiometry: Calculations with Chemical Formulas and Equations
- Chapter 4 Aqueous Reactions and Solution Stoichiometry
- Chapter 5 Thermochemistry
- Chapter 6 Electronic Structure of Atoms
- Chapter 7 Periodic Properties of the Elements
- Chapter 8 Basic Concepts of Chemical Bonding
- Chapter 9 Molecular Geometry and Bonding Theories
- Chapter 10 Gases
- Chapter 11 Intermolecular Forces, Liquids, and Solids
- Chapter 12 Solids and Modern Materials
- **Exam** **Final Exam For Advanced Chemistry: Pre-AP Chemistry**
- Chapter 13 Properties of Solutions
- Chapter 14 Chemical Kinetics
- Chapter 15 Chemical Equilibrium
- Chapter 16 Acid-Base Equilibria
- Chapter 17 Additional Aspects of Aqueous Equilibria
- Chapter 19 Chemical Thermodynamics
- Chapter 20 Electrochemistry
- *Chapter 24 (*If time permits*) The Chemistry of Life: Organic and Biological Chemistry
- **Exam** **Final Exam For AP Chemistry**

Laboratory Activities:

For the laboratory activities this year you will be called upon to collect, process, and manipulate data taken from physical observations, both measured and unmeasured. You will be participating in two types of labs: 1) traditional (step-by-step) and 2) inquiry-based (you devise the procedure). For most of these labs you will develop a formal write-up including all of your results. Individual laboratory activities will vary but most of them will take between 1-3 laboratory periods. Approximately 1-3 hours per week, or a total of about 50+ hours will be devoted to lab time.

Laboratory Notebook:

The laboratory notebook is designed to organize your **PREVIOUSLY GRADED** lab write-ups and handouts. You will chronologically organize your graded labs. The notebook will be kept in the classroom, and can be updated during class time. It will be due at the end of each semester. I will notify you **1 day** before the notebooks are due. **BE READY AND ORGANIZED AT ALL TIMES!**

Homework:

There will be much homework given throughout this course. It will consist of "Focus Problems" from your textbook and other resources as well. You are responsible for everything in the chapter unless otherwise told. Check your chapter syllabi for the "Focus Problems" that will be due. Since homework is designed to be practice for quizzes and tests, it is of little value after the fact. You will be given notice of all homework well in advance of due dates allowing you the opportunity to make proper arrangements.

AP Chemistry Online Help:

- ✓ Pearson Education Online Solutions (Student Access Code Card provided)
- ✓ The Central Science Test Prep Series Manual (linked): This book accompanies our text and is designed to help students score well on the Advanced Placement Examination in May. It provides chapter summaries and problems.
- ✓ FlinnPREP AP Chemistry Course: A complete review of chemistry's most important concepts that set students on a path of success in AP* Chemistry.
- ✓ AP College Board Resources

Grading per quarter (with approximate values by percent):

- Tests (~45-50%)
- Labs (~30%)
- Quizzes (~5-10%)
- Homework (~15-20%)
- Bonus Points (~2-3%)

"Bonus" Participation Points:

There will be **"BONUS" PARTICIPATION POINTS** available each quarter. These can be earned by attending class, being in your assigned seat when the tardy bell rings, and demonstrating positive and active class participation. These "BONUS POINTS" **can** help your grade by about **~3%** each quarter. (**NOTE: IF ONE BREAKS ANY OF THE SEVEN CLASS RULES, COMES TO CLASS LATE (EXCUSED OR UNEXCUSED), AND/OR IS ABSENT FROM CLASS, THE OPPORTUNITY TO RECEIVE THESE BONUS POINTS WILL BE LOST.**)