ap chemistry western Guilford high school



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| **Teacher** | **Ms. Moodie** |
| **Room #** | **#133** |
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**Course Description**

AP Chemistry is a wide-ranging course. **The curriculum is divided into nine units** that encompass long lists of smaller topics. **There are also seven Scientific Practices that students are expected to master** in the course. This is a part of the new inquiry-based model of AP science courses that encourages independent thinking. **Finally, there are some overarching Curricular Requirements that every AP Chemistry class must fulfill**.

These are the fundamental concepts every AP Chemistry syllabus must cover (although not necessarily in this order):

1. Atomic Structure and Properties
2. Molecular and Ionic Compound Structure and Properties
3. Intermolecular Forces and Properties
4. Chemical Reactions
5. Kinetics
6. Thermodynamics
7. Equilibrium
8. Acids and Bases
9. Applications of Thermodynamics

AP Chemistry provides opportunities for students to connect their knowledge of chemistry and science to major societal or technological components to help them become scientifically literate citizens. The course also provides opportunities for students to develop, record and maintain evidence of their verbal, written and graphic communication skills through lab reports, summaries of literature or scientific investigations, and oral, written and graphic presentations.

**Course Objectives**

***By the end of this course, you should be able to:***

#1: describe models and representations, including across scales.

#2: determine scientific questions and methods.

#3: create representations or models of chemical phenomena

#4: analyze and interpret models and representations on a single scale or across multiple scales.

#5: solve problems using mathematical relationships.

#6: develop an explanation or scientific argument.

**Grading Scale & Weights**

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| *A* | *90-100* |
| B | 80-89 |
| C | 70-79 |
| D | 60-69 |
| F | 0-50 |
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| ***Product-***  *Quizzes*  *Tests/Projects* | *40%* |
| **Process-** | 60% |
| Classwork  Homework  Worksheets |  |
| ***Total*** | ***100%*** |

**Rules & Procedures**

**Rules:**

* Be prepared for class with all relevant materials in your assigned seat when the bell rings.
* Respect everyone and their property.
* Cell phones should be turned off and invisible during the class period.
* Follow all rules outlined according to Western Guilford High and Guilford County Schools handbook rules.

**Procedures:**

* Upon entering the class and taking assigned seat, each student will start working on the opening activity located on the board.
* Raise your hand to speak.
* Pick up after yourself before you leave.