

AP-Prep Chemistry Elective

Basic information:

- 3 hours per week (9th and 10th grade)**
- choice in 9th and 10th possible**
- no fixed curriculum (depends on the subject teacher)**
- language depends on the subject teacher**

Biology-Chemistry-Elective normally in German

Science Lab normally in English

AP-Prep-Chemistry-Elective

- further developing of already acquired skills and concepts important for AP chemistry**
- Adds more depth to some topics covered in grades 7-10**
- Covers some topics in the US curriculum that are not part of JFKS 7-10 curriculum**
- enable students to make an informed decision on whether or not AP Chemistry is a subject to consider in their future course selection**

AP-Prep-Chemistry-Elective

- Adding more detail to students' understanding of the atomic model**
- Energy levels, sublevels, orbitals**
- Study more of the experiments that were part of the development of the atomic model**
- Electronic structure and configurations**
- Gas Laws and the Kinetic Molecular Theory of Gases**
- Calculations involving moles, masses, concentrations**

AP-Prep-Chemistry-Elective

- Percentage of elements by mass in compounds**
- Empirical formulas and molecular formulas from experimental data**
- Basic Stoichiometry**
- Limiting and excess reagents**
- Solutions, including concentrations and dilution**
- Solution and Gas Stoichiometry**
- Acids and Bases, including titrations and stoichiometry**

AP-Prep-Chemistry-Elective

- prepare students for the rigors of the AP science curricula**
- much of the content, the activities performed are simplified versions of AP lab activities**
- better prepared to handle common AP science hurdles, such as dealing with raw data and presenting data in graphical form**
- designed to capture the excitement of science through a variety of interesting and informative activities**