

AP Chemistry Notes

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AP Chemistry is an introductory college-level Chemistry course. The student in such a course will attain a depth of understanding of fundamentals and competence in dealing with chemical problems. Students will develop advanced inquiry and reasoning skills, such as designing a plan for collecting data, analyzing data, applying mathematical routines, and connecting concepts in and across domains.

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- 1.2 Moles and Molar Mass**
- 1.3 Mass Spectroscopy of Elements**
- 1.4 Atomic Structure and Electron Configuration**
- 1.5 Photoelectron Spectroscopy**
- 1.6 Periodic Trends & Valence Electrons and Ionic Compounds**

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- 2.1 Types of Chemical Bonds, Intramolecular Force and Potential Energy, and Structure of Ionic Solids**
- 2.2 Lewis Diagrams**
- 2.3 VSEPR and Bond Hybridization**
- 2.4 Resonance and Formal Charge**
- 2.5 Structure of Metals and Alloys**

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3.1 Solids, Liquids, and Gases

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3.3 Solubility

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3.5 Kinetic Molecular Theory

3.6 Ideal Gas Law

3.7 Deviation from Ideal Gas Law

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3.9 Representations of Solutions

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3.12 Photoelectric Effect

3.13 Beer-Lambert Law

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4.5 Stoichiometry

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