

# AP Chemistry Final Study Guide

## Unit 1: Atomic Structure and Properties (7%–9%)

- At STP, one mole of gas always occupies 22.4 L
- **Mass Spectroscopy:**
  - Atoms have different isotopes (carbon-12, carbon-14, etc) and this will affect the average atomic mass
  - The most abundant isotope will have the greatest effect
- **Coulomb's Law:**
  - The greater the charge of the nucleus, the more energy is required to ionize an electron
  - The closer an electron is to the nucleus, the more energy is required to ionize an electron
- **Electromagnetic Radiation:**
  - When atoms absorb energy, electrons jump to higher energy levels
  - When electrons drop from higher to lower energy levels, atoms give off electromagnetic radiation energy
- **Kinetic Energy of Ionized Electrons:**
  - The faster an ejected electron is going, the more kinetic energy it has
  - Electrons originally further away from the nucleus require less energy to eject, so it will have more kinetic energy
- **Electron Configuration:**
  - When entering the d-block (transition metals), the energy level drops by 1 unless you are using shorthand notation
    - Nickel:  $1s^2 2s^2 2p^6 3s^2 3p^6 3d^8 4s^2$  (notice the d-block)
    - Nickel (with shorthand):  $[\text{Ar}]4s^2 3d^8$
- **Law of Definite Proportions:**
  - A pure chemical compound broken down into elements always contains elements of a fixed ratio, independent of where and how it was created
- **Law of Multiple Proportions:**
  - When elements form compounds, the proportions of the elements in those chemical compounds can be expressed in small whole number ratios
- **Aufbau Principle:**
  - When building up the electron configuration of an atom, electrons are placed in orbitals, subshells, and shells in order of increasing energy

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**Student Books**



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**AP Chemistry Exam Study Guide** Accepted, 2019-09-19      **ASAP Chemistry: a Quick-Review Study Guide for the AP Exam** The Princeton Review, 2018-11-15 Subtitle on cover A quick review study guide for the AP Exam      *AP Chemistry, All Access* Kevin Reel, Derrick C. Wood, Scott A. Best, 2014 All Access for the AP R Chemistry Exam Completely Revised for the 2014 Exam Book Web Mobile Everything you need to prepare for the Advanced Placement R exam in a study system built around you There are many different ways to prepare for an Advanced Placement R exam What s best for you depends on how much time you have to study and how comfortable you are with the subject matter To score your highest you need a system that can be customized to fit you your schedule your learning style and your current level of knowledge This book and the online tools that come with it will help you personalize your AP R Chemistry prep by testing your understanding pinpointing your weaknesses and delivering flashcard study materials unique to you The REA AP R All Access system allows you to create a personalized study plan through three simple steps targeted review of exam content assessment of your knowledge and focused study in the topics where you need the most help Here s how it works Review the Book Study the Big Ideas tested on the AP R Chemistry exam and learn proven AP R strategies that will help you tackle any question you may see on test day Test Yourself and Get Feedback As you review the book test yourself with 7 end of chapter quizzes plus two mini tests Score reports from your free online tests and quizzes give you a fast way to pinpoint what you really know and what you should spend more time studying Improve Your Score Armed with your score reports you can personalize your study plan Review the parts of the book where you are weakest and use the REA Study Center to create your own unique AP R Chemistry e flashcards adding to the 100 free cards included with this book Visit The REA Study Center for a suite of online tools The best way to personalize your study plan is to get frequent feedback on what you know and what you don t At the online REA Study Center you can access three types of assessment topic level quizzes mini tests and a full length practice test Each of these tools provides true to format questions and delivers a detailed score report that follows the topics set by the College Board R Topic Level Quizzes Short 15 minute online quizzes are available throughout the review and are designed to test your immediate grasp of the topics just covered Mini Tests Two online mini tests cover what you ve studied in each half of the book These tests are like the actual AP R Chemistry exam only shorter and will help you evaluate your overall understanding of the subject Full Length Practice Test After you ve finished reviewing the book take our full length AP R Chemistry exam to practice under test day conditions Available both in the book and online this test gives you the most complete picture of your strengths and weaknesses We strongly recommend that you take the online version of the exam for the added benefits of timed testing automatic scoring and a detailed score report Improving Your Score e Flashcards With your score reports from the quizzes and tests you ll be able to see exactly which AP R Chemistry topics you need to review Use this information to create your own flashcards for the areas where you are weak And because you will create these

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