

# ap chemistry midterm GUIDE

## UNIT 1 - THE ATOM

- mass spectrometry - relative abundances and masses of isotopes
- $(\text{abundance}_1)(\text{mass}_1) + (\text{abundance}_2)(\text{mass}_2) \dots = \text{avg atomic mass}$
- empirical formula - smallest ratio of molecular formula of comp
- Coulomb's Law -  $\left. \begin{array}{l} \text{more charge} \\ \text{less distance} \end{array} \right\} \text{more force} \quad \left( \frac{kq_1q_2}{r^2} \right)$
- large jumps in ionization energy (removing  $e^-$ ) indicate change in orbital energy level  $\rightarrow$  orbital  $\rightarrow$  shell = # possible  $e^-$ 
  - (1, 2, 3, etc) (letter) 2  $e^-$  per shell
  - (aka sublevel)
- ↳ Aufbau's principle - lowest sublevels 1st
- Hund's rule - "school bus"  $\rightarrow e^-$  will not pair up unless necessary
  - ↳  $e^-$  before pairing up have parallel spin (↑↑)
- isoelectronic - have the same  $e^-$  config. (usually w/ atoms & ions)
- Shielding -  $e^-$  repelling each other (gets in the way of nuclear attraction)
- PES (photoelectric spectrum) graph -
  - highest peak is s & label according to filling order

## PT TRENDS:

	across $\rightarrow$	down $\downarrow$
→ same w/ ionic radius		
- Atomic radius	less (+ nucleus protons)	more (+ energy levels)
- Ionization energy	more	less (valence $e^-$ farther; easier removal)
→ reactivity: nonmetals	most likely to gain $e^-$ (F)	metals likely to lose $e^-$ (Fr)
- electronegativity / electron affinity	more ↳ gain $e^-$ to become noble gas	less

- effective nuclear charge (core charge) - actual amount of positive charge experienced by the valence  $e^-$

$$Z_{\text{eff}} = Z (\# \text{ protons}) - S (\# \text{ core } e^-)$$

## UNIT 2 - BONDING

### IONIC BONDING

def: metal + nonmetal  
 $\Delta \text{EN}$ : HIGH  $\Delta \text{EN}$   
 conductor: conduct as (aq) or (l)  
 extra info: crystal lattice structure  
 ↳ lattice energy

### METALLIC BONDING

metal + metal (sea of  $e^-$ )  
 LOW  $\Delta \text{EN}$   
 conduct as solids

### COVALENT BONDING

nonmetal + nonmetal (share  $e^-$ )  
 LOW  $\Delta \text{EN}$   
 poor conductors

polar  $\swarrow$  nonpolar  $\searrow$   
 - more  $e^-$  around more EN  $e^-$  shared =  
 - bond energy

# Ap Chemistry Midterm Study Guide

**Barron's Educational Series, Neil D.  
Jespersen**



## **Ap Chemistry Midterm Study Guide:**

AP Chemistry Exam Study Guide Accepted, 2019-09-19      **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 flashcards through the REA Study Center you ll be able to access them from any computer or smartphone Not quite sure what to put on your flashcards Start with the

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**Cracking the AP Chemistry Exam, 2015 Edition** Princeton Review, 2015-01-20 EVERYTHING YOU NEED TO SCORE A PERFECT 5 Equip yourself to ace the AP Chemistry Exam with The Princeton Review's comprehensive study guide including 2 full length practice tests thorough content reviews and targeted strategies for every section of the exam This eBook edition has been specially formatted for on screen viewing with cross linked questions answers and explanations We don't have to tell you how tough AP Chem is or how important a stellar score on the AP exam can be to your chances of getting into a top college of your choice Written by Princeton Review experts who know their way around chem Cracking the AP Chemistry Exam will give you Techniques That Actually Work Tried and true strategies to avoid traps and beat the test Tips for pacing yourself and guessing logically Essential tactics to help you work smarter not harder Everything You Need to Know for a High Score Comprehensive content review for all test topics Up to date information on the 2015 AP Chemistry Exam Engaging activities to help you critically assess your progress Practice Your Way to Perfection 2 full length practice tests with detailed answer explanations Practice drills at the end of each content chapter Review of important laboratory procedures and equipment *AP Chemistry Exam Secrets Study Guide* AP Exam Secrets Test Prep, 2018-04-12 Includes Practice Test Questions AP Chemistry Exam Secrets helps you ace the Advanced Placement Exam without weeks and months of endless studying Our comprehensive AP Chemistry Exam Secrets study guide is written by our exam experts who painstakingly researched every topic and concept that you need to know to ace your test Our original research reveals specific weaknesses that you can exploit to increase your exam score more than you've ever imagined AP Chemistry Exam Secrets includes The 5 Secret Keys to AP Exam Success Time is Your Greatest Enemy Guessing is Not Guesswork Practice Smarter Not Harder Prepare Don't Procrastinate Test Yourself Maximizing Your Preparation including Test Taking Tips Final Tips for Test Day Along with a complete in depth study guide for your specific AP exam and much more CliffsNotes AP Chemistry Angela Woodward Spangenberg, 2016-01-12 Test prep for the AP Chemistry exam with 100% brand new content that reflects recent exam changes Addressing the major overhaul that the College Board recently made to the AP Chemistry exam this AP Chemistry test prep guide includes completely brand new content tailored to the exam administered every May Features of the guide include review sections of the six big ideas that the new exam focuses on Fundamental building blocks Molecules and interactions Chemical reactions Reaction rates Thermodynamics Chemical equilibrium Every section includes review questions and answers Also included in the guide are two full length practice tests as well as a math review section

and sixteen discrete laboratory exercises to prepare AP Chemistry students for the required laboratory experiments section on the exam

**McGraw-Hill Education 500 AP Chemistry Questions to Know by Test Day, 2nd edition** Mina Lebitz, 2015-10-30 Get ready for your AP Chemistry exam with 500 AP Chemistry questions updated for all the latest exam changes We want you to succeed on your AP exams That's why we've selected these 500 questions to help you study more effectively use your preparation time wisely and get your best score These AP style questions and answers are similar to the ones you'll find on the exam so you will know what to expect on your test day Each question includes detailed explanation with right and wrong answers to enhance your full understanding of the concepts Whether you are just beginning your test preparation or doing a last minute review 5 Steps to a 5 500 AP Chemistry Questions 2ed will help you achieve the score you desire 500 AP style questions and answers Complete answer explanations for every question What you really need to know to achieve a high score

**AP Chemistry For Dummies** Peter J. Mikulecky, Michelle Rose Gilman, Kate Brutlag, 2008-11-13 A practical and hands on guide for learning the practical science of AP chemistry and preparing for the AP chem exam Gearing up for the AP Chemistry exam AP Chemistry For Dummies is packed with all the resources and help you need to do your very best Focused on the chemistry concepts and problems the College Board wants you to know this AP Chemistry study guide gives you winning test taking tips multiple choice strategies and topic guidelines as well as great advice on optimizing your study time and hitting the top of your game on test day This user friendly guide helps you prepare without perspiration by developing a pre test plan organizing your study time and getting the most out of your AP course You'll get help understanding atomic structure and bonding grasping atomic geometry understanding how colliding particles produce states and so much more To provide students with hands on experience AP chemistry courses include extensive labwork as part of the standard curriculum This is why the book dedicates a chapter to providing a brief review of common laboratory equipment and techniques and another to a complete survey of recommended AP chemistry experiments Two full length practice exams help you build your confidence get comfortable with test formats identify your strengths and weaknesses and focus your studies You'll discover how to Create and follow a pretest plan Understand everything you must know about the exam Develop a multiple choice strategy Figure out displacement combustion and acid base reactions Get familiar with stoichiometry Describe patterns and predict properties Get a handle on organic chemistry nomenclature Know your way around laboratory concepts tasks equipment and safety Analyze laboratory data Use practice exams to maximize your score Additionally you'll have a chance to brush up on the math skills that will help you on the exam learn the critical types of chemistry problems and become familiar with the annoying exceptions to chemistry rules Get your own copy of AP Chemistry For Dummies to build your confidence and test taking know how so you can ace that exam

**AP Chemistry Exam Success** Lewis Morris, 2018-07-14 Learn the Secret to Success on the AP Chemistry Exam Ever wonder why learning comes so easily to some people This remarkable book reveals a system that shows you how to learn faster easier and without frustration By



mastering the hidden language of the exam you will be poised to tackle the toughest of questions with ease We've discovered that the key to success on the AP Chemistry Exam lies with mastering the Insider's Language of the subject People who score high on their exams have a strong working vocabulary in the subject tested They know how to decode the exam vocabulary and use this as a model for test success People with a strong Chemistry Insider's Language consistently Perform better in the AP Chemistry Exam Learn faster and retain more information Feel more confident in their preparation Perform better on the job Gain more satisfaction in learning The AP Chemistry Exam Success Guide is different from traditional review books because it focuses on the exam's Insider's Language It is an outstanding supplement to a traditional review program It helps your preparation for the exam become easier and more efficient The strategies puzzles and questions give you enough exposure to the Insider Language to use it with confidence and make it part of your long term memory The AP Chemistry Exam Success Guide is an awesome tool to use before a course of study as it will help you develop a strong working Insider's Language before you even begin your review Learn the Secret to Success on the AP Chemistry Exam After nearly 20 years of teaching Lewis Morris discovered a startling fact Most students didn't struggle with the subject they struggled with the language It was never about brains or ability His students simply didn't have the knowledge of the specific language needed to succeed Through experimentation and research he discovered that for any subject there was a list of essential words that when mastered unlocked a student's ability to progress in the subject Lewis called this set of vocabulary the Insider's Words When he applied these Insider's Words the results were incredible His students began to learn with ease He was on his way to developing the landmark series of Books and applications to teach this Insider's Language to students around the world Our books and applications are helpful to any student They are especially helpful to struggling students English language learners and students beginning a course of study The strongest students will also enjoy the puzzle and game aspect of the books In all cases the books provide an enjoyable break from the tedious and mundane experience of traditional test preparation Get your copy today N B When viewing our workbooks on a digital device such as a Kindle we highly recommend the use of a PDF mark up software such as Squid as it will make the experience much more effective and enjoyable

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Author Adrian Dingle is a chemistry educator and author with 24 years of experience teaching in the United States and the United Kingdom. He is the creator of the award-winning chemistry website [www.adriandingleschemistrypages.com](http://www.adriandingleschemistrypages.com). The focus of Mr Dingle's teaching career has been on preparing students for standardized tests AP and SAT tests in the United States, GCSE's and A levels in the United Kingdom and International Baccalaureate in both countries. An Englishman, he lives in Atlanta, Georgia, where he teaches at The Westminster Schools. He holds a B.Sc. Hons Chemistry and a Postgraduate Certificate in Education, both from the University of Exeter in England. In addition to writing this Crash Course, Mr Dingle has written *The Periodic Table Elements With Style*, *How To Make A Universe With 92 Ingredients* and *SAT Chemistry Crash Course*. He is the 2011 winner of the School Library Association of the UK's Information Book Award and in 2012 was honored with the prestigious literary prize *Wissenschaftsbuch des Jahre* sponsored by the Austrian Ministry of Science and Research.

**Cracking the AP Chemistry Exam, 2014 Edition** Princeton Review (Firm), Paul Foglino, 2013-08-06. Provides techniques for achieving high scores on the AP chemistry exam and includes two full-length practice tests, a subject review for all topics, and sample questions and answers.

## The Enigmatic Realm of **Ap Chemistry Midterm Study Guide**: Unleashing the Language is Inner Magic

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