

# Unit 1 Atomic Structure & Properties

## KEY Terms

- Atomic Mass:** The mass of an element
- Molar Mass:** The mass of a mole worth of an element
- Mass Percent:** The percent in mass of something in the overall
- Avogadro's #:**  $6.02 \cdot 10^{23}$
- Isotopes:** Different types of an element - different number of neutrons
- Empirical formula:** reduced version of a formula

## Atomic Mass

Where does it come from  
 Each element has at least one isotope, and each isotope has a different weight, to find the atomic mass, scientists averaged the weights of each isotope of an element based on how much of each isotope exists in nature

## But what is an Isotope

Isotopes are different forms of an element and each element has at least one.  
 An element is defined based on its number of protons. Electrons determine how reactive an element is.  
 The number of neutrons which isotope it is

PERIODIC TABLE OF THE ELEMENTS

↑ higher ionization energy    ↑ higher electronegativity    ↓ more metalloids    → smallest atomic radius

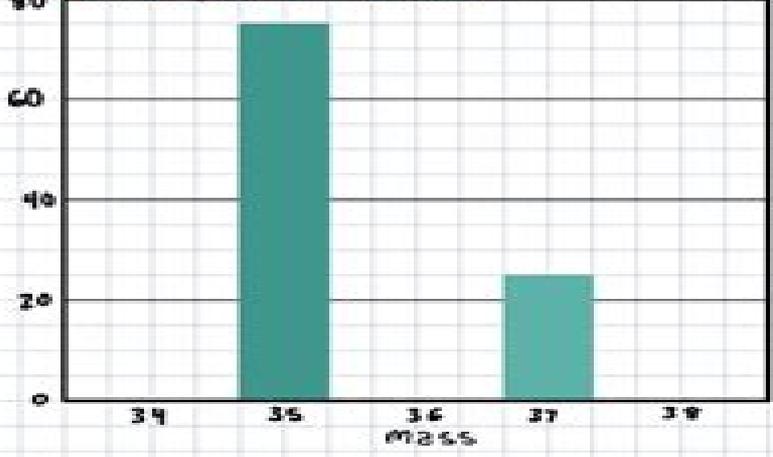
↑ largest atomic radius

- Alkali metals
- Alkaline earth metals
- Transition metals
- Post-transition metals
- Nonmetals
- Resonance elements
- Radioactive elements
- Lanthanides
- Actinides
- Unlabeled properties

## Mass Spectroscopy on the AP Exam

- Estimate atomic mass from a mass spectrum graph (could be a fake element)
- Identify an element from a mass spectrum graph
- Identify an isotope from a mass spectrum graph

Mass Spec of Chlorine



### Approx. Avg Atomic Mass

≈ 75% of the isotopes found have a mass of 35 grams

≈ 25% of the isotopes found have a mass of 37 grams

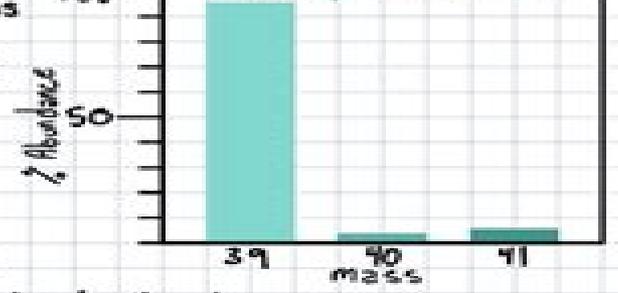
$$\frac{75\%}{100\%} = 0.75 \quad \frac{25\%}{100\%} = 0.25$$

$$(35 \cdot 0.75) + (37 \cdot 0.25)$$

$$26.25g + 9.25g$$

$$35.5g \text{ sig figs } \approx 36g$$

Identify an Element



Estimate the atomic mass because most of the mass is 39 grams the element needs to be about 39 grams

Ar	K	Ca
Argon	Potassium	Calcium

Potassium makes the most sense as the closest to 39 grams

# Ap Chemistry Chapter Notes

**N.C. Yeutter**



## **Ap Chemistry Chapter Notes:**

*African American Advanced Placement Chemistry Students and Their Developing Study Habits* Natalie D. Rasmussen, 2006     *Active Literacy Across the Curriculum* Heidi Hayes Jacobs, 2017-09-25 Help students become more confident and successful readers writers and thinkers in today s world In this new edition of a bestseller highly acclaimed author and speaker Heidi Hayes Jacobs offers practical ideas for closing the literacy gap by teaching classic literacies reading writing speaking and listening along with essential new literacies digital media and global The expanded second edition features Heidi s latest work on the new literacies and provides enhanced versions of strategies designed to help educators integrate critical language skills into their daily operational curriculum These strategies include Revising and expanding the role of all teachers so that they see themselves as classical language and contemporary literacy teachers Separating vocabulary into three distinctive types with distinctive instructional approaches to sustain and extend independent language development Building creative and visual notetaking and sketchnoting strategies Designing media projects for every class level and employing a consistent editing and revision policy for writing assignments Using a formal approach to develop speaking skills through four discussion types to increase civil public discourse Employing direct technical instruction that promotes the use of the human voice and body as a speaking and communication instrument Using Curriculum Mapping to develop formal benchmark assessments for active literacy and new literacy cultivation in every subject and on every level Each chapter is focused on a specific strategy and includes practical examples so you can easily implement the ideas no matter what grade level or subject area you teach     *TDA Awakening* N.C. Yeutter, 2011-11 Filled with action suspense teenage romance and a thrilling plot that will keep you glued to your seat *TDA Awakening* takes young adult science fiction to a whole new level David Barry s life takes a turn for the worst when his hometown of Vail Colorado is destroyed in a chain of avalanches on New Year s Eve of his eighth grade year David his mother his siblings and his best friend barely survive the disaster but hundreds of innocent people perish in the avalanches including David s father David later finds a death note left behind by his father one that requests for David to attend his father s alma mater Thomas Dorsworth Academy Though her husband s intentions remain a mystery to the Barry family Mrs Barry abides by her late husband s request and sends David to TDA It is there that David meets new friends encounters new enemies and unveils the ghosts of his father s past all while being hunted down by his father s murderer the madman behind the avalanches

**Library Notes** ,1952     *Learning and Understanding* National Research Council, Division of Behavioral and Social Sciences and Education, Center for Education, Committee on Programs for Advanced Study of Mathematics and Science in American High Schools, 2002-08-06 This book takes a fresh look at programs for advanced studies for high school students in the United States with a particular focus on the Advanced Placement and the International Baccalaureate programs and asks how advanced studies can be significantly improved in general It also examines two of the core issues surrounding these

programs they can have a profound impact on other components of the education system and participation in the programs has become key to admission at selective institutions of higher education By looking at what could enhance the quality of high school advanced study programs as well as what precedes and comes after these programs this report provides teachers parents curriculum developers administrators college science and mathematics faculty and the educational research community with a detailed assessment that can be used to guide change within advanced study programs

*Book Bulletin* Chicago Public Library,1914    Notes on New Remedies ,1893    Book Bulletin of the Chicago Public Library Chicago Public Library,1913    *Educational Times* ,1916    **Electrical Age** ,1906    **Western Journal of Education** ,1914    *Paperbound Books in Print* ,1968    **Nature** Sir Norman Lockyer,1912    **Book Review Digest** ,1927    **5 Steps to a**

**5 AP Chemistry** John Moore,2003-08-22 For the more than one million students taking the AP exams each year Boxed quotes offering advice from students who have aced the exams and from AP teachers and college professors Sample tests that closely simulate real exams Review material based on the contents of the most recent tests Icons highlighting important facts vocabulary and frequently asked questions Websites and links to valuable online test resources along with author e mail addresses for students with follow up questions Authors who are either AP course instructors or exam developers

Reader's Guide to Periodical Literature Supplement ,1927    *Flip Your Classroom* Jonathan Bergmann,Aaron Sams,2023 This revised edition of the groundbreaking book shares innovators Jonathan Bergmann and Aaron Sams s insights on how to successfully flip a classroom and covers new advances in the field It started with a simple observation Students need their teachers present to answer questions or to provide help if they get stuck on an assignment they don t need their teachers present to listen to a lecture or review content From there Jon Bergmann and Aaron Sams began the flipped classroom Students watched recorded lectures for homework and completed their assignments labs and tests in class with their teacher available What they found was that their students demonstrated a deeper understanding of the material than ever before This is the authors story updated and expanded to ensure it s as relevant to your classroom as ever The revised edition includes New case studies illustrating flipped learning applied by an individual teacher and across a school district A new appendix focused on best practices for creating videos for your classes Educator examples that demonstrate the ISTE Standards in action Updates to tools terms and resources to reflect the current learning landscape In the revised edition of this landmark text you ll discover the flipped mastery model that allows students to learn at their own pace furthering opportunities for personalized education This simple concept is easily replicable in any classroom doesn t cost much to implement and helps foster self directed learning Audience Elementary and secondary classroom teachers    *Current literature of the month* ,1924    New York Medical Journal ,1916    The Athenaeum ,1878

## **Ap Chemistry Chapter Notes** Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the energy of words has be much more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such could be the essence of the book **Ap Chemistry Chapter Notes**, a literary masterpiece that delves deep to the significance of words and their affect our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall affect readers.

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