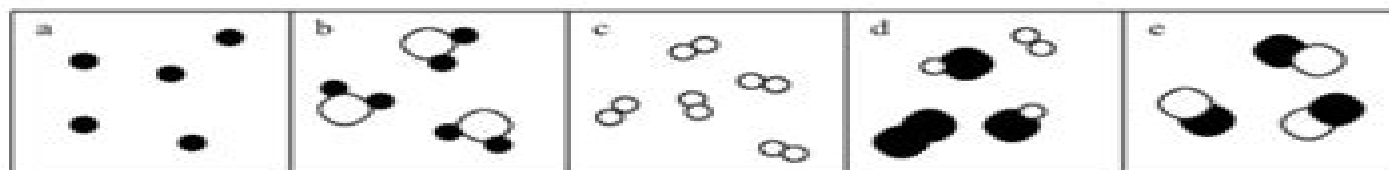


PRACTICE TEST for HONORS CHEMISTRY EXAM 2: ATOMS

1. Prepare a summary of Chapter 4 in your text, in the format of your choice (outline, concept map . . .).



2. Describe what each box represents (e.g., drawing (a) represents a pure monatomic element)
3. Draw circle pictures to illustrate each of these.
 - a. 4 molecules of A_2
 - b. 4 molecules of A_2B
 - c. 2 molecules of A_2 and 2 molecules of B_2
 - d. 2 molecules of A_2B and 2 molecules of AB
4. Fill in the blanks to complete these paragraphs. In your response, write the entire paragraph, not just the missing words.

The Greek philosopher _____ was among the first to suggest the existence of atoms, but the modern idea of the atom began with _____'s atomic theory in the year 1808. A few years later, in _____, Amadeo Avogadro stated his hypothesis that _____ to explain why gases combine in simple, whole number ratios. His hypothesis later became the basis for the mole, the counting unit of chemistry. One mole contains _____ particles.

Almost a century later, in _____, the English physicist _____ discovered the electron and showed that the atom was made of even smaller particles. He thought the atom was like a blueberry muffin, but in the year _____, _____ did an experiment in which he directed alpha particles at a thin sheet of gold foil. He expected that _____, but to his astonishment _____! From this experiment, he proposed the nuclear model of the atom, in which _____.

5.
 - a. List the 3 subatomic particles we studied, including their charge and mass in amu.
 - b. Describe the arrangement of these particles in the atom.
 - c. Compare the size of the nucleus to the size of the atom [hint: it involves football]
6. What are isotopes? How will the symbols of isotopes be alike? how will they differ?
7. Fill in this table:

Symbol	Protons	Neutrons	Electrons	Atomic number	Mass number
$^{131}_{51}\text{I}$					
	47	61			
				38	90
	9				19

8. Rubidium is 72.17% ^{85}Rb (84.9117 amu) and 27.83% ^{87}Rb (86.9178 amu). Calculate the average atomic mass of Rb. Don't forget units and watch your sigfigs.

Chemistry Honors Test Questions

DJ Losen



Chemistry Honors Test Questions:

Chemistry All-in-One For Dummies (+ Chapter Quizzes Online) Christopher R. Hren, John T. Moore, Peter J. Mikulecky, 2022-11-23 Everything you need to crush chemistry with confidence Chemistry All in One For Dummies arms you with all the no nonsense how to content you ll need to pass your chemistry class with flying colors You ll find tons of practical examples and practice problems and you ll get access to an online quiz for every chapter Reinforce the concepts you learn in the classroom and beef up your understanding of all the chemistry topics covered in the standard curriculum Prepping for the AP Chemistry exam Dummies has your back with plenty of review before test day With clear definitions concise explanations and plenty of helpful information on everything from matter and molecules to moles and measurements Chemistry All in One For Dummies is a one stop resource for chem students of all valences Review all the topics covered in a full year high school chemistry course or one semester of college chemistry Understand atoms molecules and the periodic table of elements Master chemical equations solutions and states of matter Complete practice problems and end of chapter quizzes online Chemistry All In One For Dummies is perfect for students who need help with coursework or want to cram extra hard to ace that chem test *Learning with Understanding in the Chemistry Classroom* Iztok Devetak, Saša Aleksij Glazar, 2014-01-14 This volume offers a critical examination of a variety of conceptual approaches to teaching and learning chemistry in the school classroom Presenting up to date research and theory and featuring contributions by respected academics on several continents it explores ways of making knowledge meaningful and relevant to students as well as strategies for effectively communicating the core concepts essential for developing a robust understanding of the subject Structured in three sections the contents deal first with teaching and learning chemistry discussing general issues and pedagogical strategies using macro sub micro and symbolic representations of chemical concepts Researchers also describe new and productive teaching strategies The second section examines specific approaches that foster learning with understanding focusing on techniques such as cooperative learning presentations laboratory activities multimedia simulations and role playing in forensic chemistry classes The final part of the book details learner centered active chemistry learning methods active computer aided learning and trainee chemistry teachers use of student centered learning during their pre service education Comprehensive and highly relevant this new publication makes a significant contribution to the continuing task of making chemistry classes engaging and effective **The Hidden Curriculum - Faculty Made Tests in Science** Sheila Tobias, 1997 **Introduction to Educational Research** W. Newton Suter, 2012 W Newton Suter argues that what is important in a changing education landscape is the ability to think clearly about research methods reason through complex problems and evaluate published research He explains how to evaluate data and establish its relevance *Teaching Innovation in University Education: Case Studies and Main Practices* Saura, Jose Ramon, 2022-06-17 In the last decade the development of new technologies has made innovation a fundamental pillar of education Teaching innovation

includes the evolution of both teaching and learning models to drive improvements in educational methodologies Teaching innovation is a pioneer in the understanding and comprehension of the different teaching methodologies and models developed in the academic area Teaching innovation is a process that seeks validation in the academic and teaching communities at universities in order to promote the improvement and its practices and uses in the future characterized by digital development and data based methods Teaching Innovation in University Education Case Studies and Main Practices features the major practices and case studies of teaching innovation developed in recent years at universities It is a source on study cases focused on teaching innovation methodologies as well as on the identification of new technologies that will help the development of initiatives and practices focused on teaching innovation at higher education institutions Covering topics such as didactic strategies service learning and technology based gamification this premier reference source is an indispensable resource for pre service teachers lecturers students faculty administrators libraries entrepreneurs researchers and academicians

Question Everything Jay Mathews, 2015-05-14 How AVID levels the playing field helping underserved students come out ahead In Question Everything award winning education writer Jay Mathews presents the stories and winning strategies behind the Advancement Via Individual Determination program AVID With the goal of preparing students for the future whether that future includes college or not AVID teaches students the personal management skills that will help them survive and thrive Focused on time management presentation and cooperation the AVID program leads not only to impressive educational outcomes but also to young adults prepared for life after school This book tells the stories of AVID educators students and families to illustrate how and why the program works and demonstrates how teachers can employ AVID's strategies with their own students Over the past thirty years AVID has grown from a single teacher's practice to an organization serving 400 000 middle and high school students in 47 states and 16 countries Question Everything describes the ideas and strategies behind the upward trajectory of both the program and the students who take part Learn which foundational skills are emphasized for future success Discover how AVID teaches personal management skills in the academic context Contrast AVID student outcomes with national averages Consider implementing AVID concepts and techniques into current curricula As college readiness becomes a top priority for the Federal Government the Gates Foundation and other influential organizations AVID's track record stands out as one of success By leveling the playing field and introducing real world realities early on the program teaches students skills that help them in the workplace and beyond

The ETS Test Collection Catalog Educational Testing Service. Test Collection, 1993 The major source of information on the availability of standardized tests Wilson Library Bulletin Covers commercially available standardized tests and hard to locate research instruments

The Science Teacher, 2001 *High school academic curriculum and the persistence path through college persistence and transfer behavior of undergraduates 3 years after entering 4-year institutions*, Making Thinking Visible Ron Ritchhart, Mark Church, Karin Morrison, 2011-03-25 A proven program for enhancing students thinking

and comprehension abilities Visible Thinking is a research based approach to teaching thinking begun at Harvard's Project Zero that develops students thinking dispositions while at the same time deepening their understanding of the topics they study Rather than a set of fixed lessons Visible Thinking is a varied collection of practices including thinking routines small sets of questions or a short sequence of steps as well as the documentation of student thinking Using this process thinking becomes visible as the students different viewpoints are expressed documented discussed and reflected upon Helps direct student thinking and structure classroom discussion Can be applied with students at all grade levels and in all content areas Includes easy to implement classroom strategies The book also comes with a DVD of video clips featuring Visible Thinking in practice in different classrooms

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