

Building An Atom

PART I: ATOM SCREEN

1. Go to the website: phet.colorado.edu. Click on HTML5 simulations on top right of screen and choose the Build an Atom simulation (<http://phet.colorado.edu/en/simulation/build-an-atom>)
2. Explore the Build an Atom simulation. Click on the + sign for each of the boxes (element name, net charge and mass number) to view changes as you change the number of particles in the atom.
3. What particle(s) are found in the center of the atom? _____
4. Play with the simulation to discover which **particle(s)** determine(s) the name of the element you build? _____
5. What is the name of the following atoms?
 - a. An atom with 3 protons and 4 neutrons: _____
 - b. An atom with 2 protons and 4 neutrons: _____
 - c. An atom with 4 protons and 4 neutrons: _____
6. Play with the simulation to discover which particles affect the charge of an atom or ion. _____
7. Fill in the blanks with words or phrases to make a coherent sentence:
 - a. Adding protons _____ so a proton must have a charge of _____.
 - b. Adding neutrons _____ so a neutron must have a charge of _____.
 - c. Adding electrons _____ so an electron must have a charge of _____.
 - d. What could be a rule (in the form of a single sentence or equation) to determine the **charge** of an atom?
 - i. To find the charge of an atom you _____.
8. Play with the simulation to discover which **particle(s)** affects the mass number of your atom or ion. _____
 - a. What could be a rule for determining the mass number of an atom?
 - i. To find the mass number of an atom you _____.
9. Test your knowledge by playing the first and second game.

PART II: SYMBOL SCREEN

10. Using the Symbol readout box, figure out and take notes on which particles affect each component of the atomic symbol and how the value of the numbers is determined.



11. Practice applying your understanding by playing the 3rd and 4th game levels.

Models Of An Atom Phet Lab Answers

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Chandrasegaran**



Models Of An Atom Phet Lab Answers:

Simulations and Student Learning Matthew Schnurr, Anna MacLeod, 2021-01-04 The book underlines the value of simulation based education as an approach that fosters authentic engagement and deep learning Learning and Performance Assessment: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources, 2019-10-11 As teaching strategies continue to change and evolve and technology use in classrooms continues to increase it is imperative that their impact on student learning is monitored and assessed New practices are being developed to enhance students participation especially in their own assessment be it through peer review reflective assessment the introduction of new technologies or other novel solutions Educators must remain up to date on the latest methods of evaluation and performance measurement techniques to ensure that their students excel Learning and Performance Assessment Concepts Methodologies Tools and Applications is a vital reference source that examines emerging perspectives on the theoretical and practical aspects of learning and performance based assessment techniques and applications within educational settings Highlighting a range of topics such as learning outcomes assessment design and peer assessment this multi volume book is ideally designed for educators administrative officials principals deans instructional designers school boards academicians researchers and education students seeking coverage on an educator s role in evaluation design and analyses of evaluation methods and outcomes **Handbook of Research on Innovative Pedagogies and Technologies**

for Online Learning in Higher Education Vu, Phu, Fredrickson, Scott, Moore, Carl, 2016-12-28 The integration of technology has become an integral part of the educational environment By developing new methods of online learning students can be further aided in reaching goals and effectively solving problems The Handbook of Research on Innovative Pedagogies and Technologies for Online Learning in Higher Education is an authoritative reference source for the latest scholarly research on the implementation of instructional strategies tools and innovations in online learning environments Featuring extensive coverage across a range of relevant perspectives and topics such as social constructivism collaborative learning and projects and virtual worlds this publication is ideally designed for academicians practitioners and researchers seeking current research on best methods to effectively incorporate technology into the learning environment

Overcoming Students' Misconceptions in Science Mageswary Karpudewan, Ahmad Nurulazam Md Zain, A.L. Chandrasegaran, 2017-02-28 This book discusses the importance of identifying and addressing misconceptions for the successful teaching and learning of science across all levels of science education from elementary school to high school It suggests teaching approaches based on research data to address students common misconceptions Detailed descriptions of how these instructional approaches can be incorporated into teaching and learning science are also included The science education literature extensively documents the findings of studies about students misconceptions or alternative conceptions about various science concepts Furthermore some of the studies involve systematic approaches to not only creating but also

implementing instructional programs to reduce the incidence of these misconceptions among high school science students. These studies however are largely unavailable to classroom practitioners partly because they are usually found in various science education journals that teachers have no time to refer to or are not readily available to them. In response this book offers an essential and easily accessible guide.

Nuclear Science Abstracts ,1966-11 **Government Reports Announcements & Index** ,1995-12 Government Reports Announcements ,1973 **CSA Neurosciences Abstracts** ,1983 Monthly with annual subject and author indexes Worldwide coverage of journal articles papers presented and books focused primarily on basic research in vertebrate and invertebrate neurosciences Arranged under broad topics e g genetics sleep and neurophysiology as well as miscellaneous topics book notices and proceedings Author subject indexes

Electrical & Electronics Abstracts ,1994 **Federation Proceedings** Federation of American Societies for Experimental Biology,1979 Vols for 1942 include proceedings of the American Physiological Society

Adopting the Song of Appearance: An Psychological Symphony within **Models Of An Atom Phet Lab Answers**

In some sort of eaten by monitors and the ceaseless chatter of instant transmission, the melodic elegance and mental symphony developed by the written term often fade in to the background, eclipsed by the constant noise and distractions that permeate our lives. Nevertheless, set within the pages of **Models Of An Atom Phet Lab Answers** a wonderful literary value full of organic feelings, lies an immersive symphony waiting to be embraced. Crafted by a wonderful composer of language, this fascinating masterpiece conducts visitors on a psychological journey, skillfully unraveling the hidden tunes and profound impact resonating within each cautiously constructed phrase. Within the depths of the emotional analysis, we shall examine the book is central harmonies, analyze its enthralling writing model, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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