

**Atoms PhET Lab**

**Introduction:** Atoms are the smallest things that retain the properties of matter we can observe. Atoms are made of three subatomic particles: protons, neutrons, and electrons.

- Protons have a mass of \_\_\_\_\_ amu and a charge of \_\_\_\_\_.
- Neutrons have a mass of \_\_\_\_\_ amu and a charge of \_\_\_\_\_.
- Electrons have a mass of nearly \_\_\_\_\_ amu and a charge of \_\_\_\_\_.

In this simulation, you will build atoms, subatomic particle by subatomic particle and observe the effect of adding more of each particle. When the subatomic particles in an atom change, an ion, isotope or different element will be created.

**Procedure 1: Play with the Sims → Chemistry → Build An Atom** [Run Now!](#)

Begin by playing with the simulation for a while. Become familiar with the interface. What happens when you add protons, neutrons, or electrons? To start over, click **Reset All**.



Show the symbol, atomic mass, and charge by clicking on the .

**Analysis Questions**

- Ions are atoms of the same element with different numbers of \_\_\_\_\_.
- Isotopes are atoms of the same element with different numbers of \_\_\_\_\_.
- Adding or removing protons from an atom does what to the atom? \_\_\_\_\_.
- An atom with the same number of protons and electrons has a charge of \_\_\_\_\_.
- Adding two electrons to a neutral atom produces an ion with a charge of \_\_\_\_\_.
- An atom with six protons and five electrons would have a charge of \_\_\_\_\_.
- What atom is created with nine protons, nine neutrons, and nine electrons?
- Show the full symbol for the above atom in the box at the right. 
- What does the upper-left number in the symbol represent? \_\_\_\_\_
- What does the lower-left number in the symbol represent? \_\_\_\_\_

**Game The Game**

Click the tab at the top that says "Game".

Play each level until you make a perfect score. Call me over when you complete a level with a perfect score, and I will check it off.

Level 1 \_\_\_\_\_

Level 2 \_\_\_\_\_

Level 3 \_\_\_\_\_

Level 4 \_\_\_\_\_

# Answers For Build An Atom Phet Lab

**Emilie Sanchez**

## **Answers For Build An Atom Phet Lab:**

*Teaching and Learning Online* Franklin S. Allaire,Jennifer E. Killham,2023-01-10 *Teaching and Learning Online* Science for Elementary Grade Levels explores the challenges of teaching science virtually It includes sections on frameworks teacher journeys and lesson plans aligned with Next Generation Science Standards offering tips resources and discussion questions for educators and students

**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 **Sciences for the IB MYP 4&5: By Concept** Paul Morris,Radia Chibani,El Kahina Meziane,Anna Michaelides,2018-08-13 Develop your skills to become an inquiring learner ensure you navigate the MYP framework with confidence using a concept driven and assessment focused approach to Sciences presented in global contexts Develop conceptual understanding with key MYP concepts and related concepts at the heart of each chapter Learn by asking questions for a statement of inquiry in each chapter Prepare for every aspect of assessment using support and tasks designed by experienced educators Understand how to extend your learning through research projects and interdisciplinary opportunities Think internationally with chapters and concepts set in global contexts

**Common Core Mathematics Standards and Implementing Digital Technologies** Polly, Drew,2013-05-31 Standards in the American education system are traditionally handled on a state by state basis which can differ significantly from one region of the country to the next Recently initiatives proposed at the federal level have attempted to bridge this gap Common Core Mathematics Standards and Implementing Digital Technologies provides a critical discussion of educational standards in mathematics and how communication technologies can support the implementation of common practices across state lines Leaders in the fields of mathematics education and educational technology will find an examination of the Common Core State Standards in Mathematics through concrete examples current research and best practices for teaching all students regardless of grade level or regional location This book is part of the Advances in Educational Technologies and Instructional Design series collection **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

Jacaranda Science Quest 8 Victorian Curriculum, 3e learnON & Print Graeme Lofts, Merrin J. Evergreen, 2025-11-03

JACARANDA SCIENCE QUEST 8 VICTORIAN CURRICULUM THIRD EDITION Developed by expert teachers every lesson is carefully designed to support learning online offline in class and at home Supporting students Whether students need a challenge or a helping hand they have the tools to help them take the next step in class and at home jacTUTOR every student can have the help of a personal AI tutor when they get stuck in class or at home This purpose built tool sits safely within your Jacaranda resource so guidance will always be specific to that lesson question and curriculum Concepts brought to life with rich multimedia Easy navigation Differentiated pathways Immediate corrective feedback Sample responses for every question Personalised pathways that also allow for social learning Opportunities for remediation extension and acceleration Tracking progress and growth Supporting teachers Teachers are empowered to teach their class their way with flexible resources perfect for teaching and learning Hundreds of ready made and customisable lessons Comprehensive Syllabus coverage and planning documentation A variety of learning activities Marking tracking monitoring and reporting capabilities Ability to add own materials Supporting schools Schools are set up for success with our unmatched customer service training and solutions tailored to you Learning Management System LMS integration Online class set up Dedicated customer specialists Tools to manage classes Bookseller app integration Complimentary resources for teachers Curriculum planning Data insights Flexible subscription services at unbeatable prices

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