

Teacher Guide: Element Builder



Learning Objectives

Students will...

- Compare the sizes, charges, and relative positions of the subatomic particles: protons, neutrons, and electrons.
- Relate an atom's number of protons to its charge, name, and atomic number.
- Calculate the mass number of an atom by summing the protons and neutrons.
- Understand the definition of isotope.
- Observe how electrons fill the first three energy levels.
- Create an electron dot diagram for each of the first 20 elements.



Vocabulary

atom, atomic number, electron, electron dot diagram, element, energy level, ion, isotope, mass number, neutron, nucleus, periodic table, proton, radioactive, valence electrons

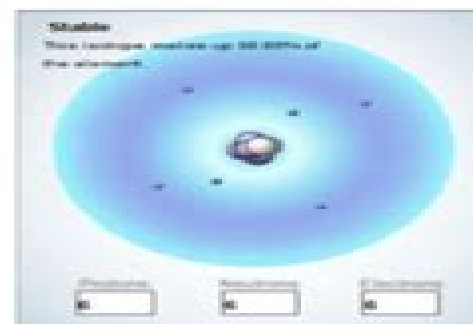


Lesson Overview

The *Element Builder Gizmo™* allows students to construct atoms by adding protons, neutrons, and electrons. As they add particles, students can see the atomic number, mass number, charge, and electron dot diagram of the element.

The Student Exploration sheet contains two activities and an Extension:

- Activity A – Students determine the mass number and atomic number of an atom.
- Activity B – Students observe electron arrangements and create electron dot diagrams.
- Extension – Students see how valence electrons relate to the periodic table of elements.



Model of a carbon atom



Suggested Lesson Sequence

1. Pre-Gizmo activity

(📅 1 – 2 weeks)

Atoms are too tiny to see, yet much about their structure had been deduced by the early part of the twentieth century. The development of atomic theory is one of the central narratives of physics and well worth learning more about.

Divide the class into groups and assign to each group one of the critical scientists involved in atomic theory. These could include Democritus, John Dalton, Dmitri Mendeleev, J.J. Thomson, Robert Millikan, Ernest Rutherford, Marie Curie, James Chadwick, Niels Bohr, Enrico Fermi, and others (see **Selected Web Resources**).

After researching their scientist via the Internet, students can present their findings with posters, atom models, and even reenactments of famous experiments.

Element Builder Guide

Julia Schneider



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Table of Contents Element Builder Guide

1. Understanding the eBook Element Builder Guide
 - The Rise of Digital Reading Element Builder Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Element Builder Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Element Builder Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Element Builder Guide
 - Personalized Recommendations
 - Element Builder Guide User Reviews and Ratings

- Element Builder Guide and Bestseller Lists
- 5. Accessing Element Builder Guide Free and Paid eBooks
 - Element Builder Guide Public Domain eBooks
 - Element Builder Guide eBook Subscription Services
 - Element Builder Guide Budget-Friendly Options
- 6. Navigating Element Builder Guide eBook Formats
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 - Element Builder Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Element Builder Guide
 - Highlighting and Note-Taking Element Builder Guide
 - Interactive Elements Element Builder Guide
- 8. Staying Engaged with Element Builder Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Element Builder Guide
- 9. Balancing eBooks and Physical Books Element Builder Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Element Builder Guide
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Element Builder Guide
 - Setting Reading Goals Element Builder Guide
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Element Builder Guide
 - Fact-Checking eBook Content of Element Builder Guide
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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