

Student Exploration: Element Builder

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

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

1. What are some of the different substances that make up a pizza?
Cheese, dough, pepperoni, sauce, and sausage.
2. What substances make up water?
Hydrogen and Oxygen
3. What substances make up an iron pot?
Iron

Elements are pure substances that are made up of one kind of **atom**. Pizza is not an element because it is a mixture of many substances. Water is a pure substance, but it contains two kinds of atom: oxygen and hydrogen. Iron is an element because it is composed of one kind of atom.

Gizmo Warm-up

Atoms are tiny particles of matter that are made up of three particles: **protons**, **neutrons**, and **electrons**. The *Element Builder* Gizmo™ shows an atom with a single proton. The proton is located in the center of the atom, called the **nucleus**.

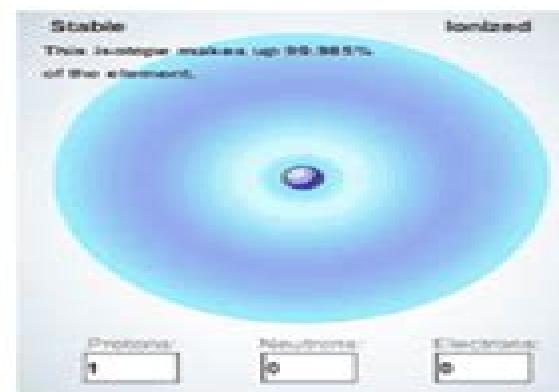
1. Use the arrow buttons (⇨) to add protons, neutrons, and electrons to the atom. Press **Play** (⇨).

A. Which particles are located in the nucleus?

Protons and Neutrons.

B. Which particles orbit around the nucleus?

Electrons.



2. Turn on **Show element name**. What causes the element name to change?
Protons.

Answer Key For Element Builder Gizmo

ML Yell

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Table of Contents Answer Key For Element Builder Gizmo

1. Understanding the eBook Answer Key For Element Builder Gizmo
 - The Rise of Digital Reading Answer Key For Element Builder Gizmo
 - Advantages of eBooks Over Traditional Books
2. Identifying Answer Key For Element Builder Gizmo
 - 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 Answer Key For Element Builder Gizmo
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answer Key For Element Builder Gizmo
 - Personalized Recommendations
 - Answer Key For Element Builder Gizmo User Reviews and Ratings
 - Answer Key For Element Builder Gizmo and Bestseller Lists
5. Accessing Answer Key For Element Builder Gizmo Free and Paid eBooks
 - Answer Key For Element Builder Gizmo Public Domain eBooks
 - Answer Key For Element Builder Gizmo eBook Subscription Services
 - Answer Key For Element Builder Gizmo Budget-Friendly Options

6. Navigating Answer Key For Element Builder Gizmo eBook Formats
 - ePUB, PDF, MOBI, and More
 - Answer Key For Element Builder Gizmo Compatibility with Devices
 - Answer Key For Element Builder Gizmo Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Answer Key For Element Builder Gizmo
 - Highlighting and Note-Taking Answer Key For Element Builder Gizmo
 - Interactive Elements Answer Key For Element Builder Gizmo
8. Staying Engaged with Answer Key For Element Builder Gizmo
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Answer Key For Element Builder Gizmo
9. Balancing eBooks and Physical Books Answer Key For Element Builder Gizmo
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Answer Key For Element Builder Gizmo
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Answer Key For Element Builder Gizmo
 - Setting Reading Goals Answer Key For Element Builder Gizmo
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Answer Key For Element Builder Gizmo
 - Fact-Checking eBook Content of Answer Key For Element Builder Gizmo
 - 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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