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Student Exploration: Element Builder

Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

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?
2. What substances make up water?
3. What substances make up an iron pot?

Cheese, dough, and sauce

Hydrogen and oxygen

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**.

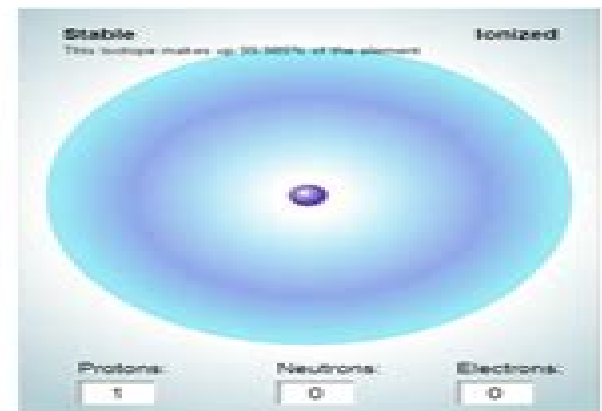
1. Use the arrow buttons () to add protons, neutrons, and electrons to the atom. Press **Play** ().

- A. Which particles are located in the nucleus?
- B. Which particles orbit around the nucleus?
- C. Turn on **Show element name**. What causes the element name to change?

protons and neutrons

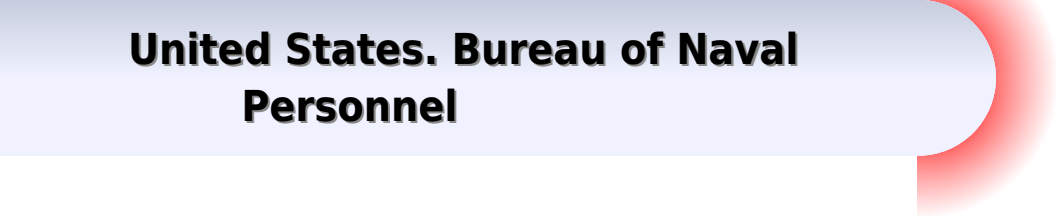
electrons

the amount of protons



Answers Gizmo Element Builder

**United States. Bureau of Naval
Personnel**



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Table of Contents Answers Gizmo Element Builder

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

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