



Name: _____

Date: 2/9/24

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?

dough, cheese, sauce, toppings

2 hydrogen atoms and 1 oxygen atom

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**.

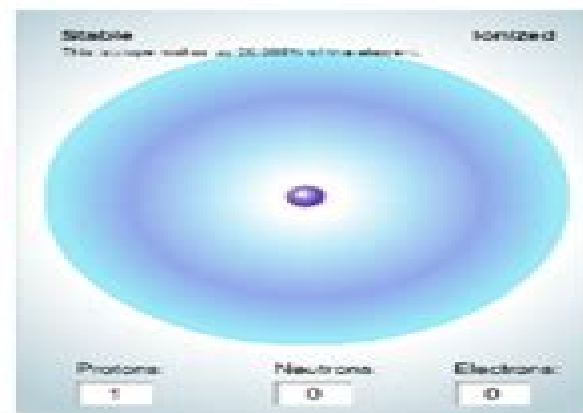
1. Use the arrow buttons () to add protons, neutrons, and electrons to the atom. Press **Play** ().

- 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, neutrons

electrons

Changing the amount of protons



Student Exploration Element Builder Explore Learning Answers Worksheet

Lei Huang



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Table of Contents Student Exploration Element Builder Explore Learning Answers Worksheet

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

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