



Name:

Enzo

Date:

October 19, 2020

## 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?

Substances that make up a pizza include cheese, wheat, oil, and tomatoes.

Water is made up of hydrogen and oxygen.

An iron pot is made of 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 addition of a proton.



# Element Builder Guide

**Jiyuan Zhang**



## **Element Builder Guide:**

## **Element Builder Guide** Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Element Builder Guide**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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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
  - ePub, PDF, MOBI, and More
  - Element Builder Guide Compatibility with Devices
  - 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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