



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.



# Explore Learning Student Exploration Element Builder Answers

**David Kirk**



**Explore Learning Student Exploration Element Builder Answers:**

**Popular Mechanics** ,2000-01 Popular Mechanics inspires, instructs and influences readers to help them master the modern world. Whether it's practical DIY home improvement tips, gadgets and digital technology information on the newest cars or the latest breakthroughs in science, PM is the ultimate guide to our high-tech lifestyle.

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## Decoding **Explore Learning Student Exploration Element Builder Answers**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Explore Learning Student Exploration Element Builder Answers**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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