



Name: Jack MonoLucas

Date: 18/03/22

## 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



# Explore Learning Element Builder Gizmo Answer Key

**CH Cherryholmes**



## **Explore Learning Element Builder Gizmo Answer Key:**

## Unveiling the Magic of Words: A Report on "**Explore Learning Element Builder Gizmo Answer Key**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Explore Learning Element Builder Gizmo Answer Key**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

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web what does the crossed arrow represent in the comic strip 11 what are two of the definitions of dipole given in the comic strip 12 making sense 13 if you finish early what does electronegativity have to do with polarity using polar bears and penguins create an illustration showing a hydrogen sulfide molecule h<sub>2</sub>s

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web each dipole represents one polar bond the molecule is nonpolar 10 describe what you think is happening to the penguins in the illustration of h<sub>2</sub>o on page 4 they are being pulled towards the stronger polar bear he s more electronegative 11 explain what you think the crossed arrow represents in the comic book polar bonds perhaps 12

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