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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**.

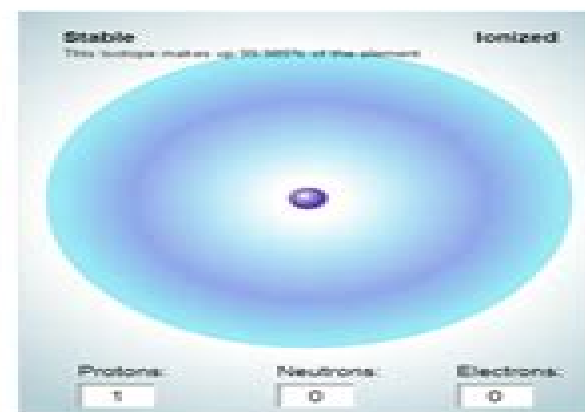
1. Use the arrow buttons ( ) to add protons, neutrons, and electrons to the atom. Press **Play** ( ).

- 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



# Element Builder Gizmo Quiz Answers

**G Orfield**



## **Element Builder Gizmo Quiz Answers:**

## Whispering the Secrets of Language: An Psychological Quest through **Element Builder Gizmo Quiz Answers**

In a digitally-driven earth wherever displays reign great and instant transmission drowns out the subtleties of language, the profound techniques and psychological subtleties hidden within words frequently get unheard. Yet, located within the pages of **Element Builder Gizmo Quiz Answers** a interesting literary treasure sporting with raw emotions, lies an extraordinary journey waiting to be undertaken. Penned by a talented wordsmith, that enchanting opus invites readers on an introspective journey, delicately unraveling the veiled truths and profound impact resonating within the cloth of each word. Within the psychological depths of this touching evaluation, we can embark upon a genuine exploration of the book is core themes, dissect its interesting writing design, and fail to the powerful resonance it evokes deep within the recesses of readers hearts.

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