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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



# Element Builder Assessment Question Answers

**Jicheng Xie**



## **Element Builder Assessment Question Answers:**

## Enjoying the Tune of Term: An Psychological Symphony within **Element Builder Assessment Question Answers**

In a world taken by monitors and the ceaseless chatter of fast conversation, the melodic splendor and mental symphony created by the written term frequently disappear in to the backdrop, eclipsed by the constant noise and disruptions that permeate our lives. However, located within the pages of **Element Builder Assessment Question Answers** a wonderful literary prize overflowing with raw thoughts, lies an immersive symphony waiting to be embraced. Constructed by a wonderful musician of language, that interesting masterpiece conducts visitors on a psychological journey, skillfully unraveling the hidden songs and profound impact resonating within each carefully crafted phrase. Within the depths of this touching examination, we will discover the book is central harmonies, analyze its enthralling writing type, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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