

Name: Carmen Chadwick

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Student Exploration: Element Builder

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? Cheese, dough, pepperoni, sauce, and sausage.
2. What substances make up water? Hydrogen and Oxygen
3. What substances make up an iron pot? 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**.

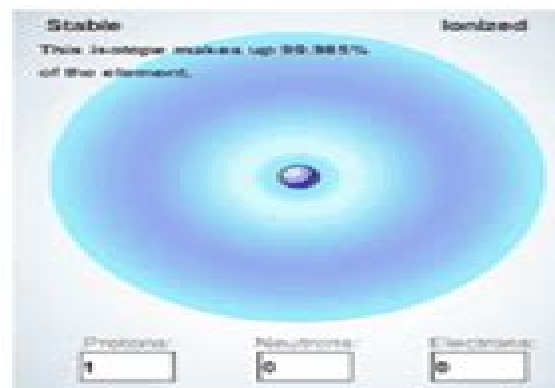
1. Use the arrow buttons (↔) to add protons, neutrons, and electrons to the atom. Press **Play** (▶).

A. Which particles are located in the nucleus?

Protons and Neutrons.

B. Which particles orbit around the nucleus?

Electrons.



2. Turn on **Show element name**. What causes the element name to change? Protons.

Student Exploration Element Builder Answer Key Word

RJ Alexander



Student Exploration Element Builder Answer Key Word:

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