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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.)

- What are some of the different substances that make up a pizza?
- What substances make up water?
- 3. What substances make up an iron pot?

Cheese, dough, and sauce	
Hydrogen and oxygen	
Iron	

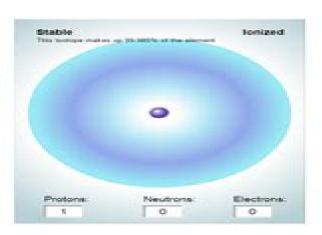
Elements are pure substances that are made up of one kind of **atom**. Pizza is not an element because it is a mixture of many substances. Water is a pure substance, but it contains two kinds of atom: oxygen and hydrogen, Iron is an element because it is composed of one kind of atom.

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.

- 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 nuetrons
electrons
the amount of protons



Answers Gizmo Element Builder

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