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.)

- 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	

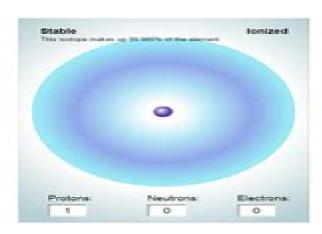
Elements are pure substances that are made up of one kind of atom. Pizza is not an element because it is a mixture of many substances. Water is a pure substance, but it contains two kinds of atom: oxygen and hydrogen, Iron is an element because it is composed of one kind of atom.

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



Explore Learning Element Builder Gizmo Answer Key

CH Cherryholmes

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