Name: __Ishait Madera G _____ Date: ____10/8/20_

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.)

- What are some of the different substances that make up a pizza? ___sauce, cheese, vegetables, and pepperoni.
- What substances make up water? __oxygen atom and two hydrogen atoms.
- What substances make up an iron pot? ___ Hydrogen and Oxygen 3. ____

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

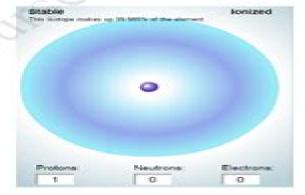
Atoms are tiny particles of matter that are made up of three particles: **protons**, **neutrons**, and **electrons**. The *Element Builder* Gizmo shows an atom with a single proton. The proton is located in the center of the atom, called the **nucleus**.

- Use the arrow buttons () to add protons, neutrons, and electrons to the atom. Press Play ().
 - A. Which particles are located in the nucleus?

Protons and neutron

B. Which particles orbit around the nucleus?

Electrons



Turn on Show element name. What causes the element name to change? ___subtracting

or adding neutrons and protons.

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