



Name:

Amaan

Date:

## 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?
- What substances make up an iron pot?

Pizza dough, tomato sauce, cheese, optional toppings.

Hydrogen, 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**.

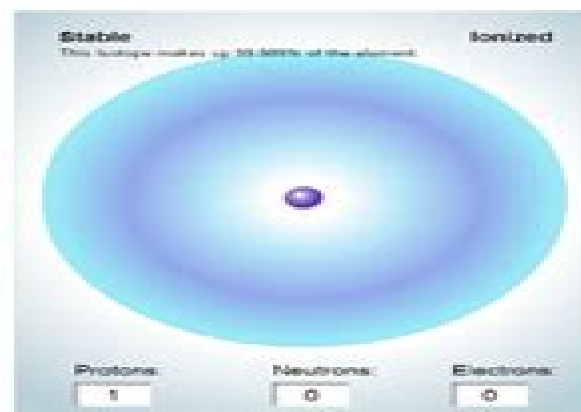
- Use the arrow buttons (↔) to add protons, neutrons, and electrons to the atom. Press **Play** (▶).

- Which particles are located in the nucleus?
- Which particles orbit around the nucleus?
- Turn on **Show element name**. What causes the element name to change?

The neutrons

The electrons

The number of protons



# Student Exploration Element Builder Key

**American Institute of Aeronautics and  
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**Proceedings of the 18th European Conference on Games Based Learning** Kristine Kilsa,Rajiv Vaid  
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