

Name: Carter David Date: _____

Student Exploration: Isotopes

Vocabulary: atomic number, band of stability, half-life, isotope, isotope notation, mass number, radioactive, radioisotope

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

1. What particles make up an atom? protons, neutrons, and electrons
2. Which of these are found in the nucleus? Protons and Neutrons
3. Which particles are charged? Electrons

Gizmo Warm-up

You may think that all atoms of an element are the same, but that is not the case. Atoms of an element can come in several different versions. Some of these versions are stable, while others can break down. In the *Isotopes* Gizmo, you will explore different versions of the elements.

To begin, check that **Hydrogen-1** is selected. Check that **Show isotope notation** is selected.

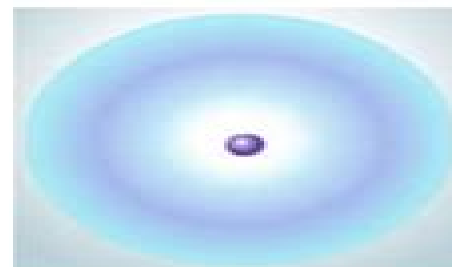
1. Click the up and down arrows for protons and neutrons and notice what changes.

- A. Which particle determines the element? The number of protons
- B. Which particle creates a different version of the same element? The number of neutrons

Atoms of the same element with different numbers of neutrons are called **isotopes**.

2. Set protons and neutrons to 6.

- A. Which isotope was created? Carbon-12
- B. What percentage of the element consists of this isotope? 98.93%
- C. Add a neutron. Which isotope do you have now? Carbon-13



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Clifford Lane

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