

Activity A:

Subatomic particles

Get the Gizmo ready:

- Use the arrows to create an atom with two protons, two neutrons, and two electrons.
- Turn on **Show element name**.



Question: What are the properties of protons, neutrons, and electrons?

1. **Observe:** Turn on **Show element symbol** and **Element notation**. Three numbers surround the element symbol: the **mass number** (A), electrical charge (no number is displayed if the atom is neutral), and the **atomic number** (Z).
2. **Investigate:** Watch how the numbers change as you add or remove particles.



- A. Which number is equal to the number of protons in the atom?
- B. How can you calculate the number of neutrons (N) in an atom?
- C. Which particle (proton, neutron, or electron) has a
Positive charge?
Negative charge?

neutrons

by the number of protons

electron

proton

Electrical charge?

3. **Observe:** Turn on **Electron configuration**. An atom's electrons form an electron cloud. Electrons are arranged in shells. The number of shells is equal to the atomic number. The number of electrons in each shell is equal to the number of protons in the atom. The number of protons is equal to the atomic number. The number of neutrons is equal to the mass number minus the atomic number. The number of electrons is equal to the number of protons.

- A. What are the shells called?
- B. What are the shells called?
- C. What are the shells called?

Electron shells

Electron shells

Electron shells

4. **Observe:** Turn on **Electron configuration**. The following questions:

- A. How many electrons are in a neutral atom of Helium?
- B. How many electrons are in a neutral atom of Hydrogen?
- C. What is the mass number of an atom with 2 protons and 2 neutrons?
- D. What is the mass number of an atom with 2 protons and 1 neutron?
- E. How many electrons are in a neutral atom of Helium?

2

1

4

3

2

Explore Learning Element Builder Gizmo Answers Key

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Explore Learning Element Builder Gizmo Answers Key:

Decoding **Explore Learning Element Builder Gizmo Answers Key**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Explore Learning Element Builder Gizmo Answers Key**," a mesmerizing literary creation penned with a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

<https://staging.conocer.cide.edu/data/uploaded-files/Documents/lab%20manual%20for%20electromagnetic%20field%20theory.pdf>

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