

### 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 shells**. Electrons are arranged in layers around the nucleus. The number of layers is the number of electron shells. The number of electrons in each shell is the number of electrons in that shell. The number of electrons in each shell is the number of electrons in that shell.

- 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 shells**. Answer 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

**Puja Mehta**



## **Explore Learning Element Builder Gizmo Answers Key:**

## Adopting the Melody of Appearance: An Psychological Symphony within **Explore Learning Element Builder Gizmo Answers Key**

In some sort of taken by displays and the ceaseless chatter of fast communication, the melodic elegance and emotional symphony produced by the written term usually disappear in to the background, eclipsed by the constant sound and disturbances that permeate our lives. But, nestled within the pages of **Explore Learning Element Builder Gizmo Answers Key** a wonderful literary treasure overflowing with organic thoughts, lies an immersive symphony waiting to be embraced. Constructed by a masterful composer of language, this captivating masterpiece conducts visitors on a psychological trip, skillfully unraveling the hidden songs and profound affect resonating within each carefully constructed phrase. Within the depths with this poignant evaluation, we will explore the book is main harmonies, analyze its enthralling publishing fashion, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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