

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

no charge is 0

3. **Observe:** Turn on **Electron shells**. Electrons are arranged in layers around the nucleus. The number of electrons in an atom is equal to the atomic number. Electrons in the outermost shell are called valence electrons. They are responsible for the chemical properties of an element.

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

1st shell, 2nd shell, 3rd shell

1st shell, 2nd shell, 3rd shell

1st

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

Element Builder Gizmo Answers

Sabine Zange

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Element Builder Gizmo Answers:

This book delves into Element Builder Gizmo Answers. Element Builder Gizmo Answers is a crucial topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Element Builder Gizmo Answers, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Element Builder Gizmo Answers
 - Chapter 2: Essential Elements of Element Builder Gizmo Answers
 - Chapter 3: Element Builder Gizmo Answers in Everyday Life
 - Chapter 4: Element Builder Gizmo Answers in Specific Contexts
 - Chapter 5: Conclusion
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