

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

neutron

3. **Explore:** Use the Gizmo to create different combinations of particles. Each combination is an atom. Record the mass number, electrical charge, and number of protons, neutrons, and electrons. The table is pre-filled with the data for Helium. Add more particles until you have a total of 10 particles. Record the data in the table below.

- A. What are the mass numbers of Helium?
- B. What are the mass numbers of Lithium?
- C. Carbon has two isotopes. What are they?

3 neutrons and 2 protons

3 neutrons and 3 protons

12

4. **Challenge:** Use the Gizmo to answer the following questions.

- A. How many electrons are in a neutral atom of Helium?
- B. How many electrons are in an atom of Hydrogen?
- C. What is the mass number of an atom with 3 protons and 3 neutrons?
- D. What is an atom's charge if it contains 11 protons and 10 electrons?
- E. How many electrons are in Hydrogen?

2

1

6

1

1

Element Builder Gizmo Test Answers

JL Elias

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the JL Elias text.

Element Builder Gizmo Test Answers:

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Table of Contents Element Builder Gizmo Test Answers

1. Understanding the eBook Element Builder Gizmo Test Answers
 - The Rise of Digital Reading Element Builder Gizmo Test Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Element Builder Gizmo Test Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Element Builder Gizmo Test Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Element Builder Gizmo Test Answers
 - Personalized Recommendations
 - Element Builder Gizmo Test Answers User Reviews and Ratings
 - Element Builder Gizmo Test Answers and Bestseller Lists
5. Accessing Element Builder Gizmo Test Answers Free and Paid eBooks
 - Element Builder Gizmo Test Answers Public Domain eBooks
 - Element Builder Gizmo Test Answers eBook Subscription Services
 - Element Builder Gizmo Test Answers Budget-Friendly Options

6. Navigating Element Builder Gizmo Test Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Element Builder Gizmo Test Answers Compatibility with Devices
 - Element Builder Gizmo Test Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Element Builder Gizmo Test Answers
 - Highlighting and Note-Taking Element Builder Gizmo Test Answers
 - Interactive Elements Element Builder Gizmo Test Answers
8. Staying Engaged with Element Builder Gizmo Test Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Element Builder Gizmo Test Answers
9. Balancing eBooks and Physical Books Element Builder Gizmo Test Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Element Builder Gizmo Test Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Element Builder Gizmo Test Answers
 - Setting Reading Goals Element Builder Gizmo Test Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Element Builder Gizmo Test Answers
 - Fact-Checking eBook Content of Element Builder Gizmo Test Answers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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