

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. **Observe:** Turn on **Isotope notation**. Isotope notation shows the number of protons and neutrons in an atom. The mass number (A) is the sum of protons and neutrons. The atomic number (Z) is the number of protons. The electrical charge is shown as a superscript to the right of the element symbol.

- A. What are the mass numbers of carbon?
- B. What are the mass numbers of oxygen?
- C. Carbon has two isotopes of oxygen.

12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100

12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100

12

4. **Observe:** Turn on **Isotope notation** to answer the following questions.

- A. How many electrons are in a neutral atom of lithium?
- 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 the mass number of an atom with 11 protons and 11 neutrons?
- E. How many electrons are in hydrogen?

3

1

6

22

11

Element Builder Gizmo Answers

Lei Huang

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Table of Contents Element Builder Gizmo Answers

1. Understanding the eBook Element Builder Gizmo Answers
 - The Rise of Digital Reading Element Builder Gizmo Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Element Builder Gizmo 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 Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Element Builder Gizmo Answers
 - Personalized Recommendations
 - Element Builder Gizmo Answers User Reviews and Ratings
 - Element Builder Gizmo Answers and Bestseller Lists

5. Accessing Element Builder Gizmo Answers Free and Paid eBooks
 - Element Builder Gizmo Answers Public Domain eBooks
 - Element Builder Gizmo Answers eBook Subscription Services
 - Element Builder Gizmo Answers Budget-Friendly Options
6. Navigating Element Builder Gizmo Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Element Builder Gizmo Answers Compatibility with Devices
 - Element Builder Gizmo Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Element Builder Gizmo Answers
 - Highlighting and Note-Taking Element Builder Gizmo Answers
 - Interactive Elements Element Builder Gizmo Answers
8. Staying Engaged with Element Builder Gizmo Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Element Builder Gizmo Answers
9. Balancing eBooks and Physical Books Element Builder Gizmo Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Element Builder Gizmo Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Element Builder Gizmo Answers
 - Setting Reading Goals Element Builder Gizmo Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Element Builder Gizmo Answers
 - Fact-Checking eBook Content of Element Builder Gizmo 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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