

### 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 represents a different element. Record the mass number, atomic number, and electrical charge of each atom. The table is pre-filled with the data for Helium and Hydrogen. Add or remove particles to create other elements. Record the mass number, atomic number, and electrical charge of each element in the table below.

- A. What are the mass numbers of Helium?
- B. What are the mass numbers of Hydrogen?
- C. What are the electrical charges of Helium?

2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 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

1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 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

0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 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

4. **Explore:** 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 the mass number of an atom with 11 protons and 11 neutrons?
- E. How many electrons are in Hydrogen?

2

1

6

22

11

# Element Builder Gizmo Exploration Sheet Answer Key

**Marco Cascella**



## **Element Builder Gizmo Exploration Sheet Answer Key:**

Element Builder Gizmo Exploration Sheet Answer Key: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous captivating novels enthralling the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the captivating narratives that have charmed audiences this year. Element Builder Gizmo Exploration Sheet Answer Key : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Element Builder Gizmo Exploration Sheet Answer Key : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and gripping novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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## **Table of Contents Element Builder Gizmo Exploration Sheet Answer Key**

1. Understanding the eBook Element Builder Gizmo Exploration Sheet Answer Key
  - The Rise of Digital Reading Element Builder Gizmo Exploration Sheet Answer Key
  - Advantages of eBooks Over Traditional Books
2. Identifying Element Builder Gizmo Exploration Sheet Answer Key
  - 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 Exploration Sheet Answer Key
  - User-Friendly Interface
4. Exploring eBook Recommendations from Element Builder Gizmo Exploration Sheet Answer Key
  - Personalized Recommendations
  - Element Builder Gizmo Exploration Sheet Answer Key User Reviews and Ratings
  - Element Builder Gizmo Exploration Sheet Answer Key and Bestseller Lists
5. Accessing Element Builder Gizmo Exploration Sheet Answer Key Free and Paid eBooks
  - Element Builder Gizmo Exploration Sheet Answer Key Public Domain eBooks
  - Element Builder Gizmo Exploration Sheet Answer Key eBook Subscription Services
  - Element Builder Gizmo Exploration Sheet Answer Key Budget-Friendly Options
6. Navigating Element Builder Gizmo Exploration Sheet Answer Key eBook Formats
  - ePub, PDF, MOBI, and More
  - Element Builder Gizmo Exploration Sheet Answer Key Compatibility with Devices
  - Element Builder Gizmo Exploration Sheet Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Element Builder Gizmo Exploration Sheet Answer Key
  - Highlighting and Note-Taking Element Builder Gizmo Exploration Sheet Answer Key
  - Interactive Elements Element Builder Gizmo Exploration Sheet Answer Key
8. Staying Engaged with Element Builder Gizmo Exploration Sheet Answer Key

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Element Builder Gizmo Exploration Sheet Answer Key
- 9. Balancing eBooks and Physical Books Element Builder Gizmo Exploration Sheet Answer Key
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Element Builder Gizmo Exploration Sheet Answer Key
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Element Builder Gizmo Exploration Sheet Answer Key
  - Setting Reading Goals Element Builder Gizmo Exploration Sheet Answer Key
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Element Builder Gizmo Exploration Sheet Answer Key
  - Fact-Checking eBook Content of Element Builder Gizmo Exploration Sheet Answer Key
  - 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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