



Gizmos

Name: Date:

Student Exploration: Periodic Trends

Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

Vocabulary: atomic radius, electron affinity, electron cloud, energy level, group, ion, ionization energy, metal, nonmetal, nucleus, period, periodic trends, picometer, valence electron

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

1. On the image at right, the two magnets are the same. Which paper clip would be harder to remove?

2. Which magnet would be most likely to attract additional paper clips?

3. What is the relationship between the thickness of the book and the ability of the magnet to hold on to and attract paper clips?



Gizmo Warm-up

Just as the thickness of a book changes how strongly a magnet attracts a paper clip, the size of an atom determines how strongly the **nucleus** attracts electrons. In the *Periodic Trends* Gizmo, you will explore this relationship and how it affects the properties of different elements.

The **atomic radius** is a measure of the size of the **electron cloud**, or the region where electrons can be found. To begin, check that **H** (hydrogen) is selected in **Group 1** on the left. Turn on **Show ruler**. To measure the radius, drag one end of the ruler to the proton in the nucleus and the other end to the electron. Click **Save radius** to record the value.



1. What is the radius of hydrogen?

Notice that the radius is measured in **picometers** (pm). A picometer is one trillionth of a meter.

2. On the right side of the Gizmo, select **Li**. Connect the right side of the ruler to the outermost electron, or **valence electron**. What is the radius of lithium?

Answers For Gizmo Prisms And Culinders Activity A

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Answers For Gizmo Prisms And Culinders Activity A:

Answers For Gizmo Prisms And Culinders Activity A: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels enthralling the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the captivating narratives that have captivated audiences this year. Answers For Gizmo Prisms And Culinders Activity A : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding 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. Answers For Gizmo Prisms And Culinders Activity A : Delia Owens "Where the Crawdads Sing" This mesmerizing 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 popular 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 captivating 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 thrilling 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 Answers For Gizmo Prisms And Culinders Activity A

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

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