



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

B Lingard



Answers For Gizmo Prisms And Culinders Activity A:

The book delves into Answers For Gizmo Prisms And Culinders Activity A. Answers For Gizmo Prisms And Culinders Activity A is a vital topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Answers For Gizmo Prisms And Culinders Activity A, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Answers For Gizmo Prisms And Culinders Activity A
 - Chapter 2: Essential Elements of Answers For Gizmo Prisms And Culinders Activity A
 - Chapter 3: Answers For Gizmo Prisms And Culinders Activity A in Everyday Life
 - Chapter 4: Answers For Gizmo Prisms And Culinders Activity A in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, this book will provide an overview of Answers For Gizmo Prisms And Culinders Activity A. The first chapter will explore what Answers For Gizmo Prisms And Culinders Activity A is, why Answers For Gizmo Prisms And Culinders Activity A is vital, and how to effectively learn about Answers For Gizmo Prisms And Culinders Activity A.
 3. In chapter 2, this book will delve into the foundational concepts of Answers For Gizmo Prisms And Culinders Activity A. The second chapter will elucidate the essential principles that need to be understood to grasp Answers For Gizmo Prisms And Culinders Activity A in its entirety.
 4. In chapter 3, this book will examine the practical applications of Answers For Gizmo Prisms And Culinders Activity A in daily life. This chapter will showcase real-world examples of how Answers For Gizmo Prisms And Culinders Activity A can be effectively utilized in everyday scenarios.
 5. In chapter 4, this book will scrutinize the relevance of Answers For Gizmo Prisms And Culinders Activity A in specific contexts. This chapter will explore how Answers For Gizmo Prisms And Culinders Activity A is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, the author will draw a conclusion about Answers For Gizmo Prisms And Culinders Activity A. The final chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Answers For Gizmo Prisms And Culinders Activity A.

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