

# Graphing Periodic Trends Lab

Name \_\_\_\_\_ Hr \_\_\_\_\_

**PURPOSE:** To determine how certain properties are periodic when the elements are arranged in periods or groups.

**DISCUSSION:** There are many periodic trends that occur as you cross a period or go down a group/family on the Periodic Table. Graphing various elemental properties will help to illustrate these trends.

## REFERENCE:

Angstrom - A unit of distance equal to one ten-billionth of a meter.

Atomic Radius - The distance from the center of the nucleus to the valence electron energy level.

Ionization energy - The energy required to remove an electron from an atom.

## DATA

**Properties of the First 18 Elements**

| Element | Atomic Number | Atomic Radius (Angstroms) | Ionization Energy |
|---------|---------------|---------------------------|-------------------|
| H       | 1             | 0.79                      | 314               |
| He      | 2             | 0.49                      | 567               |
| Li      | 3             | 2.05                      | 124               |
| Be      | 4             | 1.4                       | 215               |
| B       | 5             | 1.17                      | 191               |
| C       | 6             | 0.91                      | 260               |
| N       | 7             | 0.75                      | 335               |
| O       | 8             | 0.65                      | 314               |
| F       | 9             | 0.57                      | 402               |
| Ne      | 10            | ?                         | ?                 |
| Na      | 11            | 2.23                      | 119               |
| Mg      | 12            | 1.72                      | 176               |
| Al      | 13            | 1.82                      | 138               |
| Si      | 14            | 1.46                      | 168               |
| P       | 15            | 1.23                      | 242               |
| S       | 16            | 1.09                      | 239               |
| Cl      | 17            | 0.97                      | 299               |
| Ar      | 18            | ?                         | ?                 |

Using the data above, make a line graph the following data. Draw a dark vertical line to separate the 3 periods. Give each graph a title and label both the x-axis and the y-axis. Connect your points. Predict the plot points for elements with question marks.

1. Atomic Radius (y) vs. Atomic Number (x) for the first 3 periods (18 elements – 3 graphs)
2. Ionization energy (y) vs. Atomic Number (x) for the first 3 periods (18 elements – 3 graphs)

# Lab 10 Graphing Periodic Trends Answers

**D Kirk**



## **Lab 10 Graphing Periodic Trends Answers:**

## Decoding **Lab 10 Graphing Periodic Trends Answers**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Lab 10 Graphing Periodic Trends Answers**," a mesmerizing literary creation penned by a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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### Table of Contents **Lab 10 Graphing Periodic Trends Answers**

1. Understanding the eBook **Lab 10 Graphing Periodic Trends Answers**
  - The Rise of Digital Reading **Lab 10 Graphing Periodic Trends Answers**
  - Advantages of eBooks Over Traditional Books
2. Identifying **Lab 10 Graphing Periodic Trends 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 **Lab 10 Graphing Periodic Trends Answers**
  - User-Friendly Interface
4. Exploring eBook Recommendations from **Lab 10 Graphing Periodic Trends Answers**
  - Personalized Recommendations
  - **Lab 10 Graphing Periodic Trends Answers** User Reviews and Ratings
  - **Lab 10 Graphing Periodic Trends Answers** and Bestseller Lists

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