

Periodic Trends Worksheet

Directions: Use your notes to answer the following questions.

1. Rank the following elements by increasing atomic radius: carbon, aluminum, oxygen, potassium.

Oxygen < Carbon < Aluminum < Potassium

2. Rank the following elements by increasing electronegativity: sulfur, oxygen, neon, aluminum.

Neon < Aluminum < Sulfur < Oxygen

3. Why does fluorine have a higher ionization energy than iodine?

Fluorine has nine protons attracting 9 electrons which are much closer to the nucleus compared to iodine. This results in smaller size of Fluorine than iodine making it difficult to remove an electron from the atom.

4. Why do elements in the same family generally have similar properties?

Because they have same number of electrons in the outer shell (valence electrons) which take part in chemical reaction.

5. Indicate whether the following properties increase or decrease from left to right across the periodic table.

- | | |
|--|------------------|
| a. atomic radius (excluding noble gases) | Decreases |
| b. first ionization energy | Increases |
| c. electronegativity | Increases |

6. What trend in atomic radius occurs down a group on the periodic table? What causes this trend?

Atomic radius **decreases** down the group on the periodic table. As we compare the elements down the group, the effective nuclear charge increases, but at the same time the outermost electrons are found in the shell that is farther away from the nucleus. Also the number of screening electrons increases. This results in reduced attraction between the nucleus and the outermost electrons.

7. What trend in ionization energy occurs across a period on the periodic table? What causes this trend?

Ionization energy **increases** from left to right across the period. The atomic size becomes smaller from left to right. So it becomes harder to remove electron from the atom. Hence the energy required to do so (ionization Energy) increases.

Lab Periodic Trends Key

Joacim Rocklöv

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Lab Periodic Trends Key:

This book delves into Lab Periodic Trends Key. Lab Periodic Trends Key is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Lab Periodic Trends Key, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Lab Periodic Trends Key
- Chapter 2: Essential Elements of Lab Periodic Trends Key
- Chapter 3: Lab Periodic Trends Key in Everyday Life
- Chapter 4: Lab Periodic Trends Key in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Lab Periodic Trends Key. This chapter will explore what Lab Periodic Trends Key is, why Lab Periodic Trends Key is vital, and how to effectively learn about Lab Periodic Trends Key.

3. In chapter 2, this book will delve into the foundational concepts of Lab Periodic Trends Key. The second chapter will elucidate the essential principles that must be understood to grasp Lab Periodic Trends Key in its entirety.

4. In chapter 3, this book will examine the practical applications of Lab Periodic Trends Key in daily life. The third chapter will showcase real-world examples of how Lab Periodic Trends Key can be effectively utilized in everyday scenarios.

5. In chapter 4, the author will scrutinize the relevance of Lab Periodic Trends Key in specific contexts. The fourth chapter will explore how Lab Periodic Trends Key is applied in specialized fields, such as education, business, and technology.

6. In chapter 5, the author will draw a conclusion about Lab Periodic Trends Key. This chapter will summarize the key points that have been discussed throughout the book.

This 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 Lab Periodic Trends Key.

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Lab Periodic Trends Key Introduction

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