

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.

Exploring Periodic Trends Lab Answer Key

**Advisory Committee on Technology
and Society**



Exploring Periodic Trends Lab Answer Key:

Exploration and Research for Atomic Minerals ,1990 **Resources in Education** ,1995 *Energy Abstracts for Policy Analysis* ,1981-07 **NASA Technical Memorandum** ,1992 Scientific and Technical Aerospace Reports ,1993
Research and Technology Objectives and Plans Summary (RTOPS) ,1993 **Research and Technology Objectives and Plans Summary** ,1993 A compilation of the summary portions of each of the RTOPs used for management review and control of research currently in progress throughout NASA P i **The NIH Record** ,1992 **Cities and Their Vital Systems** Advisory Committee on Technology and Society,1989 Cities and Their Vital Systems asks basic questions about the longevity utility and nature of urban infrastructures analyzes how they grow interact and change and asks how when and at what cost they should be replaced Among the topics discussed are problems arising from increasing air travel and airport congestion the adequacy of water supplies and waste treatment the impact of new technologies on construction urban real estate values and the field of telematics the combination of computers and telecommunications that makes money machines and national newspapers possible Energy Research Abstracts ,1992-10 *Human Factors Engineering Bibliographic Series* ,1966 Selected Water Resources Abstracts ,1970 **Air Force Magazine** ,2010-07 **Large Space Structures and Systems in the Space Station Era** ,1991-12 *Geothermal Energy Update* ,1981 *Nuclear Science Abstracts* ,1976 Government Reports Announcements & Index ,1985-02 Who's the New Kid in Chemistry? John D. Butler,2013-12-12 Who s the New Kid in Chemistry offers an unprecedented look at student engagement and teacher best practices through the eyes of an educational researcher enrolled as a public high school student Over the course of seventy nine consecutive days John D Butler participates in and observes Rhode Island 2013 Teacher of the Year Jessica M Waters s high school chemistry class documenting his experiences as they unfold Who s the New Kid in Chemistry is a compelling example of what can be accomplished when an educational researcher and teacher collaborate in the classroom This work includes a discussion on flexible homework assignments data driven instruction and thirty teacher best practices This book is an invaluable resource for teachers across all content areas masters and doctoral research method classes and future Teachers of the Year **Cumulated Index Medicus** ,1994 Index Medicus ,2004 Vols for 1963 include as pt 2 of the Jan issue Medical subject headings

This book delves into Exploring Periodic Trends Lab Answer Key. Exploring Periodic Trends Lab Answer Key is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Exploring Periodic Trends Lab Answer Key, encompassing both the fundamentals and more intricate discussions.

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

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

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

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

4. In chapter 3, the author will examine the practical applications of Exploring Periodic Trends Lab Answer Key in daily life. This chapter will showcase real-world examples of how Exploring Periodic Trends Lab Answer Key can be effectively utilized in everyday scenarios.

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

6. In chapter 5, this book will draw a conclusion about Exploring Periodic Trends Lab Answer Key. This 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 Exploring Periodic Trends Lab Answer Key.

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