

MYP4 Chemistry

Periodic Trends

Use the periodic table, charts, and your knowledge of periodic trends to answer the following questions.

Atomic Radius

1. Which atom in each pair has the larger atomic radius? Circle your answer.

a) Li or **K** b) **Ca** or Ni c) **Ga** or B d) O or **C** e) Cl or **Br**
f) Be or **Ba** g) **Si** or S h) Fe or **Au**

2. What is the periodic trend for atomic size from top to bottom in a group? From left to right in a period?

Atomic size (atomic radius) increases from top to bottom in a group and decreases from left to right in a period.

3. Why do atoms get smaller as you move left to right in a period?

Atoms get smaller as you move left to right in a period due to the increase in effective nuclear charge (while the number of occupied energy levels remain constant) leading to an increase in the force of attraction, which pulls the outer electrons closer to the nucleus and decreases the atomic radius.

4. Why do atoms get larger as you move down a group?

Atoms get larger as you move down a group due to the increase in occupied energy levels.

5. Arrange the following in order of increasing atomic radius atomic radius.

Mg, Na, P, Si and Ar? They are in the same period: Ar, P, Si, Mg, Na

Ionic Radius

6. Define an ion.

a charged atom or group of atoms

7. What is the difference between a cation and an anion?

Cations are positively charged ions. They are formed when an atom loses electrons.
Anions are negatively charged ions. They are formed when an atom gains electrons.

8. Explain the relationship between the relative size of an ion to its neutral atom and the charge on the ions.

Cations are smaller than their neutral atom because they have less occupied energy levels.
Anions are larger than their neutral atom because of the increase in electron-electron repulsion.

9. Which particle has the larger radius in each atom/ion pair? Circle your answer.

a) **Na** Na⁺ b) S, **S²⁻** c) I, I⁻ d) **Al** Al³⁺

Periodic Trends Practice Answer Key

N Noddings



Periodic Trends Practice Answer Key:

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

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

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

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

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

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

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

6. In chapter 5, the author will draw a conclusion about Periodic Trends Practice 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 Periodic Trends Practice Answer Key.

https://crm.avenza.com/files/publication/Documents/Nissan_Qashqai_J10_Full_Service_Repair_Manual_2006_Onwards.pdf

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