

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 Problems Answers Key

DJ Losen



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Periodic Trends Practice Problems Answers Key: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the engaging narratives that have charmed audiences this year. Periodic Trends Practice Problems Answers Key : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Uncover the Best : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens' "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and suspenseful novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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Table of Contents Periodic Trends Practice Problems Answers Key

1. Understanding the eBook Periodic Trends Practice Problems Answers Key
 - The Rise of Digital Reading Periodic Trends Practice Problems Answers Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Periodic Trends Practice Problems Answers Key
 - 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 Periodic Trends Practice Problems Answers Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Periodic Trends Practice Problems Answers Key
 - Personalized Recommendations
 - Periodic Trends Practice Problems Answers Key User Reviews and Ratings
 - Periodic Trends Practice Problems Answers Key and Bestseller Lists
5. Accessing Periodic Trends Practice Problems Answers Key Free and Paid eBooks
 - Periodic Trends Practice Problems Answers Key Public Domain eBooks
 - Periodic Trends Practice Problems Answers Key eBook Subscription Services
 - Periodic Trends Practice Problems Answers Key Budget-Friendly Options
6. Navigating Periodic Trends Practice Problems Answers Key eBook Formats
 - ePub, PDF, MOBI, and More
 - Periodic Trends Practice Problems Answers Key Compatibility with Devices
 - Periodic Trends Practice Problems Answers Key Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Periodic Trends Practice Problems Answers Key
 - Highlighting and Note-Taking Periodic Trends Practice Problems Answers Key
 - Interactive Elements Periodic Trends Practice Problems Answers Key
8. Staying Engaged with Periodic Trends Practice Problems Answers Key

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Periodic Trends Practice Problems Answers Key
- 9. Balancing eBooks and Physical Books Periodic Trends Practice Problems Answers Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Periodic Trends Practice Problems Answers Key
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Periodic Trends Practice Problems Answers Key
 - Setting Reading Goals Periodic Trends Practice Problems Answers Key
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Periodic Trends Practice Problems Answers Key
 - Fact-Checking eBook Content of Periodic Trends Practice Problems Answers Key
 - 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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