

## GRAPHING PERIODIC TRENDS

**Standard:** Students know how to use the periodic table to identify trends in ionization energy, electronegativity, and the relative sizes of ions and atoms.

### PRE-LAB DISCUSSION:

The Periodic Table is arranged according to the Periodic Law. The Periodic Law states that when elements are arranged in order of increasing atomic number, their physical and chemical properties show a periodic pattern. Students can discover these patterns by examining the changes in properties of elements on the Periodic Table. The properties that will be examined in this lesson are: atomic radius AND first ionization energy.

### PURPOSE:

To understand periodic trends relating to atomic radius, ionization energy, and electronegativity.

### PROCEDURE:

Use the information in these tables to complete the graph as described below.

### RESULTS:

Symbol	Atomic Radius (Picometers)	First Ionization (Kilojoules/mole)	Electronegativity (A-point scale)
H	37	1312	2.1
Li	128	520	1.0
Na	190	495	0.9
K	203	419	0.8
Rb	220	403	0.8
Cs	244	376	0.7

Symbol	Atomic Radius (Picometers)	First Ionization (Kilojoules/mole)	Electronegativity (A-point scale)
Na	190	495	0.9
Mg	141	738	1.2
Al	121	578	1.5
Si	111	787	1.8
P	107	1012	2.1
S	104	1000	2.0
Cl	102	1251	3.0
Ar	100	1521	—

1. Define each of these terms: Atomic radius, First Ionization Energy, and Electronegativity
2. Using colored pencil or pen, list under the symbol (in this order) the Atomic Radius, First Ionization Energy, and Electronegativity. Use a different color for each property. Example: Write all of the Atomic radius values in red, all of the First Ionization energies in green, and all of the Electronegativities in blue. Of course, you can pick any colors that are available, as long as you are consistent.
3. Observe the trends in each property as you go down the Alkali metal group, and as you go across Period 3.
4. Write out each of the statements written on the opposite side, completing each statement with the observed trend (increase or decrease)
5. There is NO ABSTRACT to write for this activity :)

# Periodic Trends Pre Lab Answer Key

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## **Periodic Trends Pre Lab Answer Key:**

*Prentice Hall Chemistry*, 2000     Sustainable Green Chemistry Mark Anthony Benvenuto, 2017-04-10 Sustainable Green Chemistry the 1st volume of Green Chemical Processing covers several key aspects of modern green processing The scope of this volume goes beyond bio and organic chemistry highlighting the ecological and economic benefits of enhanced sustainability in such diverse fields as petrochemistry metal production and wastewater treatment The authors discuss recent progresses and challenges in the implementation of green chemical processes as well as their transfer from academia to industry and teaching at all levels Selected successes in the greening of established processes and reactions are presented including the use of switchable polarity solvents actinide recovery using ionic liquids and the removal of the ubiquitous bisphenol A molecule from effluent streams by phytodegradation     **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     **Computer Based Projects for a Chemistry Curriculum** Thomas J. Manning, Aurora P. Gramatges, 2013-04-04 This e book is a collection of exercises designed for students studying chemistry courses at a high school or undergraduate level The e book contains 24 chapters each containing various activities employing applications such as MS excel spreadsheets and Spartan computational modeling Each project is explained in a simple easy to understand manner The content within this book is suitable as a guide for both teachers and students and each chapter is supplemented with practice guidelines and exercises Computer Based Projects for a Chemistry Curriculum therefore serves to bring computer based learning a much needed addition in line with modern educational trends to the chemistry classroom     Tools for High-quality Differentiated Instruction Cindy Strickland, 2007 60 tools that can be used in every grade and subject designed to help teachers reach higher levels of expertise with differentiation instruction for student learning     *Science Spectrum* Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2003-03     **The World of Chemistry** Jones, Jones Staff, 1996     Radioactive Waste Management, 1988     *Report summaries* United States. Environmental Protection Agency, 1983     *Nominations Before the Senate Armed Services Committee, First Session, 107th Congress* United States. Congress. Senate. Committee on Armed Services, 1961     **Assisted Reproductive Technology Surveillance** Dmitry M. Kissin, G. David Adamson, Georgina Chambers, Christian De Geyter, 2019-07-04 Offers a

comprehensive guide to assisted reproductive technology surveillance describing its history global variations and best practices    **Energy Research Abstracts** ,1992    **Nuclear Science Abstracts** ,1975-11    *ERDA Energy Research Abstracts* United States. Energy Research and Development Administration,1977    **ERDA Energy Research Abstracts** United States. Energy Research and Development Administration. Technical Information Center,1977    **Laboratory Manual** Jo A. Beran,1990    **Government Reports Announcements & Index** ,1988    Scientific and Technical Aerospace Reports ,1990    **Energy Abstracts for Policy Analysis** ,1985    **Energy: a Continuing Bibliography with Indexes** ,1983

Periodic Trends Pre Lab Answer Key: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the engaging narratives that have enthralled audiences this year. Periodic Trends Pre Lab Answer Key : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has captivated 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 prevail. Periodic Trends Pre Lab Answer Key : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Periodic Trends Pre Lab Answer Key : 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 weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular 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 captivating stories waiting to be discovered. The novel begins with Richard Papan, 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 masterful and suspenseful novel that will keep you speculating until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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