

# Graphing Periodic Trends Activity

Name: \_\_\_\_\_ Period: \_\_\_\_\_

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

| Symbol | Atomic Radius (Picometers) | First Ionization energy (kilojoules/mole) | Electronegativity (4-point scale) |
|--------|----------------------------|-------------------------------------------|-----------------------------------|
| H      | 31                         | 1312                                      | 2.1                               |
| Li     | 128                        | 520                                       | 1.0                               |
| Na     | 166                        | 496                                       | 0.9                               |
| K      | 203                        | 410                                       | 0.8                               |
| Rb     | 220                        | 403                                       | 0.8                               |
| Cs     | 244                        | 376                                       | 0.7                               |

| Symbol | Atomic Radius (Picometers) | First Ionization energy (kilojoules/mole) | Electronegativity (4-point scale) |
|--------|----------------------------|-------------------------------------------|-----------------------------------|
| Na     | 166                        | 496                                       | 0.9                               |
| Mg     | 141                        | 738                                       | 1.2                               |
| Al     | 121                        | 578                                       | 1.5                               |
| Si     | 111                        | 787                                       | 1.8                               |
| P      | 107                        | 1012                                      | 2.1                               |
| S      | 105                        | 1000                                      | 2.5                               |
| Cl     | 102                        | 1251                                      | 3.0                               |
| Ar     | 106                        | 1521                                      | ---                               |

- Using colored pencils 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.
- Observe the trends in each property as you go down the Alkali metal group, and as you go across Period 3.
- Write out each of the statements written on the opposite side, completing each statement with the observed trend (increase or decrease)

|                         |                                                                                                                                                                                          |    |    |   |   |    |    |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|---|---|----|----|
| H                       | <p>Across a period (→) atomic radius tends to _____.</p> <p>Across a period (→) first ionization energy tends to _____.</p> <p>Across a period (→) electronegativity tends to _____.</p> |    |    |   |   |    |    |
| Li                      |                                                                                                        |    |    |   |   |    |    |
| Na<br>166<br>496<br>0.9 | Mg                                                                                                                                                                                       | Al | Si | P | S | Cl | Ar |
| K                       | <p>Down a Group (↓) atomic radius tends to _____.</p> <p>Down a Group (↓) first ionization energy tends to _____.</p> <p>Down a Group (↓) electronegativity tends to _____.</p>          |    |    |   |   |    |    |
| Rb                      |                                                                                                                                                                                          |    |    |   |   |    |    |
| Cs                      |                                                                                                                                                                                          |    |    |   |   |    |    |

# Periodic Trends Packet Answer Key Tables And Graphs

**Yi-Tong Ma**



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*The Software Encyclopedia 2001* ,2001 *Daily Graphic* Ransford Tetteh, 2008-12-02 **The Software Encyclopedia 2000** Bowker Editorial Staff, 2000-05 *Operations Management* Joel D. Wisner, 2016-06-20 Finally an operations management book to get excited about Operations Management A Supply Chain Process Approach exposes students to the exciting and ever changing world of operations management through dynamic writing application and cutting edge examples that will keep students interested and instructors inspired Author Dr Joel Wisner understands that today s students will be entering a highly competitive global marketplace where two things are crucial a solid knowledge of operations management and an understanding of the importance for organizations to integrate their operations and supply chain processes With this in mind Wisner not only provides a clear and comprehensive introduction to operations management but also gives attention to the important processes involved in linking firms operations in a supply chain environment

**AALL Directory and Handbook** American Association of Law Libraries, 2003 **Operations and Supply Chain Management** Roberta S. Russell, Bernard W. Taylor, 2021-03-09 Russell and Taylor s Operations and Supply Chain Management is designed to teach students how to analyze processes ensure quality create value and manage the flow of information and products while creating value along the supply chain in a global environment Russell and Taylor explain and clearly demonstrate the skills needed to be a successful operations manager Most importantly Operations Management makes the quantitative topics easy for students to understand and the mathematical applications less intimidating Appropriate for students preparing for careers across functional areas of the business environment this text provides foundational understanding of both qualitative and quantitative operations management processes

*Guide to Official Statistics* Great Britain. Central Statistical Office, 2000 **Service-Oriented and Cloud Computing** Claus Pahl, Andrea Janes, Tomas Cerny, Valentina Lenarduzzi, Matteo Esposito, 2025-02-20 This book constitutes the refereed proceedings of the 11th IFIP WG 6 12 European Conference on Service Oriented and Cloud Computing ESOC 2025 held in Bolzano Italy during February 20 21 2025 The 12 full papers and 6 short papers included in this book were carefully reviewed and selected from 28 submissions This paper focus on the cutting edge research in Service Oriented and Cloud Computing areas

*Academic Computing* ,1987 **Japanese Technical Periodical Index** ,1987 **InfoWorld** ,1994-09-26 InfoWorld is targeted to Senior IT professionals Content is segmented into Channels and Topic Centers InfoWorld also celebrates people companies and projects

**Business Software Directory** ,1986 *Commerce Business Daily* ,1999-11 **Scientific and Technical**

**Aerospace Reports** ,1984      **Learning and Leading with Technology** ,1997      **Electrical & Electronics Abstracts** ,1989      Telecommunications Abstracts ,1987      **ASM Handbook** ASM International. Handbook Committee,2000 This index eliminates that need to search through multiple back of the book indexes to find where a subject is addressed The A to Z listing will help users find important handbook content in volumes where they may not have thought to look      **Bulletin of the Atomic Scientists** ,1993-06 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world

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