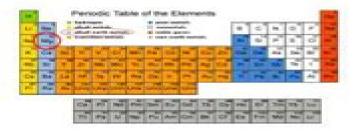
# POGIL: Períodic Table Trends

(Adapted from Rush Henrietta CSD)

#### Why::

The Periodic Table is one of the greatest inventions in the history of man. It allows scientists to predict physical and chemical properties of the elements. Dimitri Mendeleev (a Russian scientist) and Robert Mosley (a British chemist) put together this table in the late 1800's based on properties of the elements known at the time. The trends in these properties as you go across periods and down groups is the subject of this Chem POGIL.



#### Success Criteria:

- Understand the meaning of
  - atomic radius, reactivity, electronegativity, ionization energy
- Recognize trends in atomic radius, reactivity, ionization energy and electronegativity as you go across
  periods and down groups.

#### Resources:

Reference Table S, Periodic Table, Unit 3 (Chapter 6) Notes, & Chapter 6 in textbook

#### Prerequisites:

Answer the following questions using the resources above.

- What happens to the number of valence electrons as you go down a group on the periodic table?
- 2. What happens to the number of valence electrons as you go from left to right across a period?
- 3. What happens to the number of energy levels as you go down a group on the periodic table?
- 4. What happens to the number of energy levels as you go from left to right across a period?
- 5. Draw a Lewis structure for a Cl atom.

- Draw a Bohr diagram for the Cl atom. (Draw above)
- In this lab we will be talking about atomic radius.
  - a. Look up the atomic radius of CI on Table S: \_\_\_\_\_
  - b. Why is it possible to show the atomic radius using a Bohr diagram but not by using a Lewis structure?
  - On your Bohr diagram draw an arrow to represent the radius of the Cl atom.
- Define periodic:
- 9. Define trend:

# **Periodic Table Pogil Answers Extension Questions**

**G Thomas** 

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### Periodic Table Pogil Answers Extension Questions Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has be more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Periodic Table Pogil Answers Extension Questions**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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## **Table of Contents Periodic Table Pogil Answers Extension Questions**

- 1. Understanding the eBook Periodic Table Pogil Answers Extension Questions
  - The Rise of Digital Reading Periodic Table Pogil Answers Extension Questions
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Periodic Table Pogil Answers Extension Questions
  - 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 Table Pogil Answers Extension Questions
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Periodic Table Pogil Answers Extension Questions
  - Personalized Recommendations
  - Periodic Table Pogil Answers Extension Questions User Reviews and Ratings

- Periodic Table Pogil Answers Extension Questions and Bestseller Lists
- 5. Accessing Periodic Table Pogil Answers Extension Questions Free and Paid eBooks
  - Periodic Table Pogil Answers Extension Questions Public Domain eBooks
  - o Periodic Table Pogil Answers Extension Questions eBook Subscription Services
  - Periodic Table Pogil Answers Extension Questions Budget-Friendly Options
- 6. Navigating Periodic Table Pogil Answers Extension Questions eBook Formats
  - o ePub, PDF, MOBI, and More
  - Periodic Table Pogil Answers Extension Questions Compatibility with Devices
  - Periodic Table Pogil Answers Extension Questions Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Periodic Table Pogil Answers Extension Questions
  - Highlighting and Note-Taking Periodic Table Pogil Answers Extension Questions
  - Interactive Elements Periodic Table Pogil Answers Extension Questions
- 8. Staying Engaged with Periodic Table Pogil Answers Extension Questions
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Periodic Table Pogil Answers Extension Questions
- 9. Balancing eBooks and Physical Books Periodic Table Pogil Answers Extension Questions
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Periodic Table Pogil Answers Extension Questions
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Periodic Table Pogil Answers Extension Questions
  - Setting Reading Goals Periodic Table Pogil Answers Extension Questions
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Periodic Table Pogil Answers Extension Questions
  - Fact-Checking eBook Content of Periodic Table Pogil Answers Extension Questions
  - 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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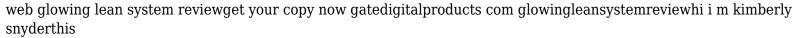
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