

POGIL: Periodic 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.

Periodic Table of the Elements

Legend:

- 1. alkali metals
- 2. alkaline earth metals
- 3. transition metals
- 4. metalloids
- 5. nonmetals
- 6. noble gases
- 7. lanthanides
- 8. actinides

The table shows elements from Hydrogen (H) to Oganesson (Og). The lanthanide and actinide series are shown below the main table.

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?
- What happens to the number of valence electrons as you go from left to right across a period?
- What happens to the number of energy levels as you go down a group on the periodic table?
- What happens to the number of energy levels as you go from left to right across a period?
- 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.
 - Look up the atomic radius of Cl on Table S: _____
 - 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*:
- Define *trend*:

Periodic Table Pogil Answers

Ensheng Dong



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Table of Contents Periodic Table Pogil Answers

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

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