

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. lanthanide series
- 8. actinide series

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 Extension Questions

Geoff Rayner-canham



Periodic Table Pogil Answers Extension Questions:

The book delves into Periodic Table Pogil Answers Extension Questions. Periodic Table Pogil Answers Extension Questions is a crucial topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Periodic Table Pogil Answers Extension Questions, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Periodic Table Pogil Answers Extension Questions
- Chapter 2: Essential Elements of Periodic Table Pogil Answers Extension Questions
- Chapter 3: Periodic Table Pogil Answers Extension Questions in Everyday Life
- Chapter 4: Periodic Table Pogil Answers Extension Questions in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Periodic Table Pogil Answers Extension Questions. The first chapter will explore what Periodic Table Pogil Answers Extension Questions is, why Periodic Table Pogil Answers Extension Questions is vital, and how to effectively learn about Periodic Table Pogil Answers Extension Questions.

3. In chapter 2, the author will delve into the foundational concepts of Periodic Table Pogil Answers Extension Questions. The second chapter will elucidate the essential principles that must be understood to grasp Periodic Table Pogil Answers Extension Questions in its entirety.

4. In chapter 3, this book will examine the practical applications of Periodic Table Pogil Answers Extension Questions in daily life. This chapter will showcase real-world examples of how Periodic Table Pogil Answers Extension Questions can be effectively utilized in everyday scenarios.

5. In chapter 4, the author will scrutinize the relevance of Periodic Table Pogil Answers Extension Questions in specific contexts. This chapter will explore how Periodic Table Pogil Answers Extension Questions is applied in specialized fields, such as education, business, and technology.

6. In chapter 5, this book will draw a conclusion about Periodic Table Pogil Answers Extension Questions. This chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Periodic Table Pogil Answers Extension Questions.

<https://crm.avenza.com/book/detail/HomePages/physical%20science%20june%20paper%202014.pdf>

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