

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:

- Alkali metals
- Alkaline earth metals
- Transition metals
- Noble gases
- Halogens
- Lanthanides/actinides

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 Trends Simple Pogil

Carlotta Ching Ting Fok

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Periodic Trends Simple Pogil:

Approximating Periodic and Non-periodic Trends in Time-series Data Carlotta Ching Ting Fok, 2002 The new model is then applied to Brown and Moskowitz's time series data to investigate the long term evolution to the four interpersonal behaviors and to the GDP data to examine the periodic and non periodic pattern for the GDP values of the 16 countries Finally the extent to which the model is accurate is tested using simulated data

Periodic Trends Simple Pogil Book Review: Unveiling the Power of Words

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Table of Contents Periodic Trends Simple Pogil

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

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