

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 Table Pogil Answers Extension Questions

Theodore A. Abbgy



Periodic Table Pogil Answers Extension Questions:

Embracing the Tune of Term: An Psychological Symphony within **Periodic Table Pogil Answers Extension Questions**

In some sort of consumed by displays and the ceaseless chatter of immediate communication, the melodic splendor and psychological symphony created by the prepared word frequently disappear into the background, eclipsed by the constant noise and distractions that permeate our lives. Nevertheless, set within the pages of **Periodic Table Pogil Answers Extension Questions** a marvelous literary treasure overflowing with fresh feelings, lies an immersive symphony waiting to be embraced. Crafted by an elegant musician of language, that fascinating masterpiece conducts viewers on a psychological journey, skillfully unraveling the concealed melodies and profound affect resonating within each cautiously constructed phrase. Within the depths of this moving examination, we will discover the book is main harmonies, analyze their enthralling publishing fashion, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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