# 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 Trends Pogil Answers**

**Henry D. Hubbard** 

**Periodic Trends Pogil Answers:** 

### Periodic Trends Pogil Answers Book Review: Unveiling the Magic of Language

In an electronic 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 truly remarkable. This extraordinary book, aptly titled "**Periodic Trends Pogil Answers**," published 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 into the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

https://crm.avenza.com/book/uploaded-files/HomePages/satp2%20biology%20answers.pdf

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