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:

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Léo Pomar

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Whispering the Secrets of Language: An Emotional Quest through Periodic Table Pogil Answers Extension Questions

In a digitally-driven world wherever displays reign supreme and quick transmission drowns out the subtleties of language, the profound secrets and mental subtleties hidden within words frequently get unheard. Yet, located within the pages of **Periodic Table Pogil Answers Extension Questions** a fascinating fictional treasure sporting with raw feelings, lies an exceptional journey waiting to be undertaken. Written by a skilled wordsmith, that marvelous opus invites viewers on an introspective journey, lightly unraveling the veiled truths and profound impact resonating within ab muscles fabric of each and every word. Within the psychological depths of the emotional evaluation, we shall embark upon a genuine exploration of the book is key themes, dissect its interesting publishing fashion, and yield to the powerful resonance it evokes deep within the recesses of readers hearts.

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