

Name _____ Date _____ Per _____

Periodic Trends Lab

Periodic law states that when the elements are arranged in order of increasing atomic number, there is a periodic repetition of their chemical and physical properties. Elements within the same group have the most similar chemical and physical properties, although not identical. Elements in neighboring groups may also have similar chemical and physical properties, but to a lesser degree. Trends in properties occur within groups and across periods.

PURPOSE: In this activity, you will

- Interpret group and periodic trends in atomic radius, electronegativity, and ionization energy
- Graph these trends

PROCEDURE:

1. Complete the pre-lab section
2. Using the data from **Table S** of your reference tables, prepare the graphs listed below. Staple your graphs to the back of this lab packet.

On each graph be sure to:

- **USE PENCIL!**
- Put an appropriate title and labels for each axis.
- Omit the transition elements.
- Connect the points you plot.
- Connect the points representing Group 1 elements with a green line.
- Connect the points representing Group 2 elements with a blue line.
- Connect the points representing Group 17 elements with a red line.
- Draw a triangle around the points representing the elements of Period 3.

GRAPH 1. Atomic radius vs. atomic number for elements 1-54.

GRAPH 2. Electronegativity vs. atomic number for elements 1-54.

GRAPH 3. Ionization energy vs. atomic number for elements 1-54.

3. Complete the conclusion section.

Periodic Trends Pre Lab Answers

Thomas Griffiths

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 Pre Lab Answers:

Unveiling the Energy of Verbal Art: An Mental Sojourn through **Periodic Trends Pre Lab Answers**

In some sort of inundated with monitors and the cacophony of quick interaction, the profound power and mental resonance of verbal artistry usually diminish into obscurity, eclipsed by the regular barrage of sound and distractions. Yet, located within the musical pages of **Periodic Trends Pre Lab Answers**, a charming perform of fictional beauty that pulses with organic emotions, lies an unforgettable journey waiting to be embarked upon. Published by way of a virtuoso wordsmith, this exciting opus manuals viewers on a mental odyssey, gently revealing the latent possible and profound impact stuck within the complicated web of language. Within the heart-wrenching expanse of the evocative examination, we will embark upon an introspective exploration of the book is main themes, dissect its captivating publishing model, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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