

## Trends on the Periodic Table

### Part 1: Identifying chemical properties/characteristics of the elements

For each of the following elements, draw a caricature or cartoon above the description to show its "chemical personality" based on the description provided. (Note: See the Neon example for ideas.)

**Lithium**  
Being one of the smaller elements with only 3 electrons, lithium is happy to give one of its electrons away and never seems to ask for any in return.



**Francium**  
Francium is the largest of all of the elements and has so many electrons that it has trouble keeping track of them. Francium will eagerly give up electrons to other elements and never takes in extras. But watch out, it has an extremely reactive and explosive personality!

**Fluorine**  
One of the smallest elements, Fluorine is often described as snappy with a "magnetic" personality. As part of the halogen family (stoutest electron thieves), Fluorine is the best at convincing other elements to give up their electrons to him. However, he holds on tight to his own electrons and will not let them go without a fight.



I am so perfect... I have a full valence shell. I don't need those other elements... I hope they just leave me alone!



**Neon**  
Part of the Noble family, Neon does not readily interact with other elements. With a full set of valence electrons, Neon feels that he has everything he needs to make him happy without sharing with others.

**Iodine**  
As part of the halogen family, Iodine is also a skilled electron thief, however, not nearly as good as its smaller brothers and sisters. Iodine will also put up a pretty good fight to keep its own electrons.

### Part 2: Use your textbook to complete the following:

#### Atomic Radii Size:

1. Explain **atomic radius**: A measure of the size (volume) of an atom. Determined by measuring half of the distance between two identical atoms bonded together.
2. Using the information in figure 5-13 (pg 141) in your book, **write** the atomic radii size for **alkali metals & period #2** on the periodic table to your right.



3. What happens to atomic radii as you move down a column and across a row? On the arrows on the diagram, indicate the trend. (Options: gets bigger OR gets smaller)
4. Of all the elements on the periodic table, **identify & circle** the **largest & smallest** in size.

5. Rank the following elements from largest to smallest in atomic radii:

a) Be, Ba, Mg = **Ba, Mg, Be**

b) Li, F, B = **Li, B, F**

6. How can you explain the trend?

a. Why do they get smaller as you go across a period? Additional protons in the nucleus "pull" on electrons, bring the electron cloud closer.

*Effective nuclear charge,  $Z_{eff}$ , increases the attraction of the nucleus and therefore pulls the electron cloud closer to the nucleus resulting in smaller radii.*

*not a good enough answer*  
**4AP Answer**

# Periodic Trends Pogil Answers Extension Questions

**Robert Thomas Sanderson**



### **Periodic Trends Pogil Answers Extension Questions:**

**Chemistry and Our Universe** , Return to the periodic table introduced in Lecture 1 to practice predicting properties of elements based on their electronic structure Then witness what happens when three different alkali metals react with water Theory forecasts a pronounced difference in the result Is there      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      Chemical Periodicity Robert Thomas Sanderson,2013-04-20

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## **Table of Contents Periodic Trends Pogil Answers Extension Questions**

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

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