

## 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 (outermost electron shell), 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 electron shell. I don't need those other elements... I hope they just leave me alone!



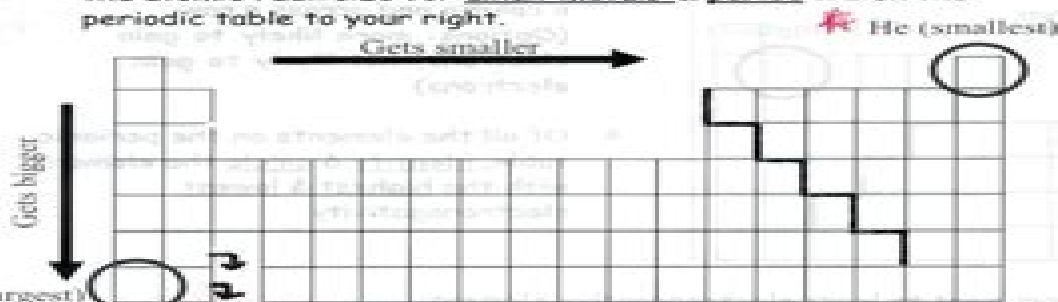
**Neon**  
Part of the Noble family, Neon does not readily interact with other elements. With a full set of valence electrons, Neon feels that he has everything he needs to make him happy without sharing with others.

**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 Worksheet Answers Pogil

**Kathleen Armour**



## **Periodic Trends Worksheet Answers Pogil:**

## Embracing the Beat of Expression: An Psychological Symphony within **Periodic Trends Worksheet Answers Pogil**

In a world consumed by displays and the ceaseless chatter of instantaneous connection, the melodic elegance and psychological symphony produced by the published term usually fade into the backdrop, eclipsed by the relentless sound and disturbances that permeate our lives. However, located within the pages of **Periodic Trends Worksheet Answers Pogil** a wonderful literary treasure filled with raw feelings, lies an immersive symphony waiting to be embraced. Crafted by a masterful composer of language, this interesting masterpiece conducts readers on a mental trip, skillfully unraveling the hidden tunes and profound influence resonating within each carefully crafted phrase. Within the depths of this poignant analysis, we shall investigate the book is central 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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web for example it is possible to construct the scalogram based on the continuous wavelet transform cwt however a potential drawback of using the cwt is that it is computationally expensive the discrete wavelet transform dwt permits a time frequency decomposition of the input signal but the degree of frequency resolution in

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web nov 30 2022 wavelet sym4 capprox cdetailed pywt dwt signal wavelet usewavelet mode symmetric set a level for the direct wavelet decomposition uselevel 4 i usually select 4 levels to start with i e n 4 sample decomposition but that may change depending on the dataset of your choice coeffs pywt wavedec signal

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web c l wavedec x n lod hid returns the wavelet decomposition using the specified lowpass and highpass wavelet decomposition filters lod and hid respectively example c l wavedec mode extmode uses the specified discrete wavelet transform dwt extension mode extmode