

Periodic Trends Practice

1. Identify each element as a metal, metalloid, or nonmetal

germanium _____ **metalloid** _____

zinc _____ **metal** _____

phosphorous _____ **nonmetal** _____

lithium _____ **metal** _____

2. Give two examples of elements for each category

noble gases _____ **He, Ne, Ar, Kr, Xe, Rn** _____

halogens _____ **F, Cl, Br, I, At** _____

alkali metals _____ **Li, Na, K, Rb, Cs, Fr** _____

alkaline earth metals _____ **Be, Mg, Ca, Sr, Ba, Ra** _____

transition metals _____ **Any elements from 3B-28** _____

3. What trend in atomic radius do you see as you go down a group/family on the periodic table? What causes this trend? **Increases going down due to added energy levels. The inside energy levels are filled up so all remaining electrons**

must go into open spaces further away from the nucleus.

4. What trend in atomic radius do you see as you go across a period/row on the periodic table? **Decreases going across**

due to electrons being added into the same valence shell. Protons would be added to the nucleus, making the positive charge stronger and electrons placed in the same space would be pulled in closer by the nucleus.

5. Circle the atom in each pair that has the largest atomic radius.

A. **A** B

B. **S** O

C. **Br** Cl

D. **Na** Al

E. **O** F

F. Mg **Ca**

6. Rank the following elements by increasing atomic radius: carbon, aluminum, oxygen, potassium.

_____ **O** _____ < _____ **C** _____ < _____ **Al** _____ < _____ **K** _____

7. Define ionization energy. **The amount of energy required to remove an electron from a neutral atom**

8. Is it easier to form a positive ion with an element that has a high ionization energy or an element that has a low ionization energy? Explain. **It would be easier to form a + ion with a low ionization energy because less energy would need to be used to remove the electron.**

9. What trend in ionization energy do you see as you go down a group/family on the periodic table? **Going down a group the ionization energy decreases. The valence electrons are further away and easier to take away.**

10. What trend in ionization energy do you see as you go across a period/row on the periodic table? What causes this trend? **Going across the period, ionization energy increases. The atoms are smaller, so the nucleus is pulling electrons in closer making them harder to remove. The atoms are also increasing their number of valence electrons. As they get closer to having a complete set of 8 valence electrons they do not want to lose electrons any more, they want to gain them instead.**

11. Circle the atom in each pair that has the greater ionization energy

A. Li **Be**

B. **Ca** Ba

C. **Na** K

D. P **Ar**

E. **Cl** Si

F. **Li** K

12. Define electronegativity. **The ability of an atom to attract electrons in a bond.**

13. What trend in electronegativity do you see as you go down a group/family on the periodic table? **Values decrease within a group. Since the valence shell becomes further away, it is harder for the nucleus to draw electrons towards it.**

14. What trend in electronegativity do you see as you go across a period/row on the periodic table? What causes this trend? **Values increase across a period because the atoms are getting smaller and the nucleus can pull electrons in easier and the atoms are closer to being like noble gases. They want to be able to complete their valence shell.**

Periodic Trends Summary Table Answer Key

G Thomas



Periodic Trends Summary Table Answer Key:

The Top Books of the Year Periodic Trends Summary Table Answer Key The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the fascinating narratives that have enthralled audiences this year. Periodic Trends Summary Table Answer Key : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Periodic Trends Summary Table Answer Key : Delia Owens' "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and gripping novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

<https://crm.avenza.com/files/scholarship/fetch.php/Pv%20235%20Maintenance%20Manual.pdf>

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