

When it comes to the Trends of the Periodic Table , I can...

1. I can classify elements as metals, nonmetals, or metalloids based on their placement on the Periodic Table. Classify each of the following elements as metals (M), nonmetals (NM), or metalloids (MTLD).

B	K	Li	C	Ar
Sb	H	Fe	Au	S
F	Si	Fr	He	Rn
Ge	Al	As	Bi	I

2. I can state the group names for groups 1, 2, 17, and 18.
3. I can explain why elements in the same group have similar chemical properties.
4. I can explain why the elements in Group 18 don't usually react with the other elements.
5. I can state the meaning of "STP" and where on the Reference Table it can be found.
6. I can state the names and symbols for the 2 elements on the Periodic Table that are liquids at STP.
7. I can state the names and symbols of the 11 elements that are always gases at STP.

8. I can state how the elements on the Periodic Table are arranged.
9. I can list the 7 diatomic elements.
10. I can define electronegativity, arbitrary + relative scales, 1st ionization energy, atomic radius, ionic radius, net nuclear charge, metallic + non-metallic character, and allotrope.
11. I can state the group trend + period trend for electronegativity and explain why it occurs.
12. I can state the group trend + period trend for 1<sup>st</sup> ionization energy + explain why it occurs.
13. Skip this one here.
14. I can state the group trend and period trend for atomic radius and explain why it occurs.
15. I can state the group trend + period trend for metallic character + explain why it occurs.
16. I can state the group trend and the period trend for non metallic character, and I can explain why it occurs.
17. I can state the group trend and period trend for net nuclear charge and why it occurs.
17. I can state the group trend and period trend for cation radius and why it occurs
18. I can state the group trend and period trend for anion radius and why it occurs
19. I can list 10 properties of metals.
20. I can list 8 properties of nonmetals.