


40 pts

Periodic Table Worksheet

1. Where are the most active metals located? *Lower Left*
2. Where are the most active nonmetals located? *upper right*
3. As you go from left to right atomic radius (decreases/increases). Why?
more pt pull e⁻ closer
4. As you travel down a group atomic radius (decreases/increases). Why?
more E Levels
5. A negative ion is (larger/smaller) than its parent atom. Why?
pt cannot pull all the e⁻ in
6. A positive ion is (larger/smaller) than its parent atom. Why?
more pt to pull e⁻ closer
7. Elements in group one are called.
alkali metals
8. Elements in group two are called.
alkaline Earth metals
9. Elements in groups 3-12 are called.
transition metals

10. As you go from left to right across the periodic table, the elements go from (metals) nonmetals) to (metals) (nonmetals)
11. Group 17 elements are called. Halogen
12. The most active element in group 17 is. F
13. Group 18 are called the noble gases. Why this name? unreactive
14. Elements in a group have the same number of val e⁻ and the same charge
15. The majority of the elements in the periodic table are (metals) nonmetals).
16. The father of the periodic table is. Mendelove
17. Elements in the periodic table are arranged according to their. atomic number
18. What is a metalloid? Where are they found?
cross between a metal + nonmetal 

19. What physical state does each color represent on the big P.T.

Black = *s* Blue = *l* Red = *g* Hollow = *syn*

20. List the Characteristic physical properties that distinguish the metallic elements from the nonmetallic elements.

metal

- *shiny*
- *good conductors*
- *ductile / malleable*

21. What are the 8 diatomic elements? What does it mean to be diatomic?

H, O, N Br, I, Cl F, At exist in pairs

Answer the following questions about groups and periods in the periodic table

22. What element is in group 4 period 5? Zr

23. How many elements are in period 4? 18

24. How many elements are in period 6? 32

25. How many metals are in group 14? 2 (1)

26. How many gaseous elements are there? 11

27. How many elements exist in the liquid state at room temperature? 2

28. Why are groups sometimes called families? similar properties