**Name: Period: Seat#:**

**Worksheet #12B**

**These are the questions that went with WS #12 Bing Bing Toe Game. For any questions you did not complete in class, use this paper to finish the problems on WS #12. Put your work and answers on   
WS #12 not this paper, this is just the questions! This must be included in your rainbow packet!**

1. How many valence electrons does Aluminum have?
2. How is a covalent bond formed?
3. What is the name given to the electrons in the highest occupied energy level of an atom?
4. What does calcium do in order to form an ionic bond?
5. What is the formula for sodium sulfate?
6. Draw the Lewis dot structure for carbon dioxide and how many lone pairs does it have?
7. What is the electron configuration for Strontium?
8. What is the name of the following compound: Cu(SO4)2
9. Draw the Lewis dot structure for peroxide
10. What is the charge on the compound sodium sulfide?
11. Which is more electronegative – Oxygen or carbon?
12. What kind(s) of elements do you (usually) need to form an ionic compound?
13. When can you form an ionic bond without having a metal present?
14. What is wrong with the following formula? Cu2o4
15. fill in the blanks: ionic bonds form when one atom has \_\_\_\_ electron affinity and one has \_\_\_\_ ionization energy
16. How many e- does BARIUM give up to achieve a noble gas config.? What is that config. In noble gas format?
17. What type of elements do you need to form a covalent bond?
18. What type of bond is in copper and describe how the e-’s behave in this type of bond?
19. What is the name of the following compound? Cr3(PO4)2
20. Complete the following rxn and name the type of rxn.
21. Do covalent bonds exibit high or low electronegativity differences?
22. Name the Diatomic elements.
23. Write the formula for potassium nitrate.
24. Draw the Lewis dot structure for beryllium fluoride.
25. What is the formula for CH4?
26. Draw the Lewis str. for sulfur hexaiodide.
27. What is the name of the compound Si2Br6
28. What is the name for the following compound? P4O10
29. What is the formula for silver nitrate?
30. What is the formula for potassium chlorite?
31. What is the formula of the compound strontium phosphite?
32. Why is a water molecule bent? Draw me a picture!
33. What is the formula of the compound strontium phosphide?
34. How many items are in a mole?
35. What is the name of the polyatomic ion NH4+?