

NAME:

PERIOD:

DATE:

Why Atoms Combine Classwork #2

Answer all questions as best you can. Be specific. Be scientific.

Tell what the following elements want to do: give electrons away (give), take electrons in (take), share electrons (share), or not react (Ex. At – take)

1. Ge -

2. At -

3. Xe –

4. In -

5. Rb -

6. (tricky!) H -

The following elements want to give, take, or share electrons. Tell which they want to do, and how many electrons they want to give, take, or share. (Ex. Ca – give 2)

7. I -

8. B -

9. As –

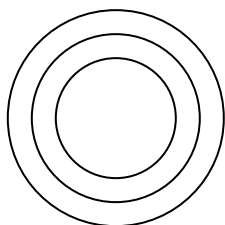
10. Ca -

11. Po -

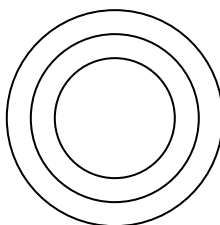
12. K -

Arrange the electrons in the levels in the atoms below.

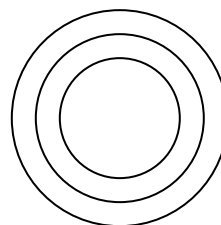
13. Fluorine



14. Silicon



15. Sulfur



Now draw the dot diagrams for those elements.

16. Strontium

17. Thallium

18. Tellurium

19. Selenium -

20. Rubidium -

21. Xenon

Three elements are listed below. Draw the dot diagram for each. Two of them will want to react with each other. Draw their dot diagrams connected together.

22. **Ca, He, O**

23. **Xe, Na, Cl**

24. **H, Cl, F**

25. **Ar, Br, Sr** (Hint: You can use 2 Br's!)

