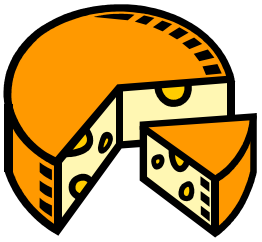
SCIENCE

NAME: PERIOD: DATE:

Chemical Bonds Review



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

PART ONE: MATCHING: Write the letter of the correct match in the blank.

1. _____ This type of bond involves ions
2. _____ This type of bond involves many metal atoms
3. _____ An atom that needs to get rid of atoms to feel stable
4. _____ This type of bond has unevenly shared electrons

A. "giver"
B. metallic bond
C. polar covalent bond
D. ionic bond

PART TWO: TRUE & FALSE: Make the False statements True by changing **one** word.

5. True or False. A non-polar bond is a type of chemical bond that has evenly shared electrons.

6. True or False. An isotope is an atom with an overall + or – charge.

7. True or False. When few metal atoms bond together it is a metallic bond.

8. True or False. The three basic types of bonds are: covalent, ionic, and metallic.

PART THREE: FILL IN THE BLANK: Write the correct science word in the blank.

9. A(n) _____ is an atom with a positive or negative charge.

10. When a "giver" and a "taker" form a chemical bond together they make an _____ bond.

PART FOUR: ANSWER THE QUESTIONS:

11. If two Oxygen atoms bond together to make O_2 (oxygen gas), what type of bond do you think is holding them together?

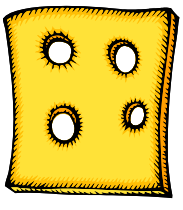
Why?

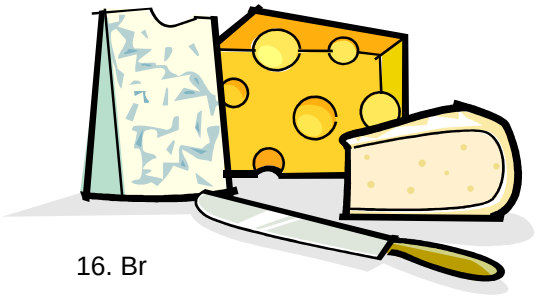
12. What type of chemical bond do you think is holding the atoms of a paper clip together?

Why?

13. What type chemical bond is holding the sodium and chlorine together in NaCl (table salt)?

Why?





PART FIVE: WHAT ION WILL IT BECOME?
Will it be + or – and what number?

14. Mg

15. In

16. Br

17. Ga

18. F

19. P

PART SIX: WHAT KIND OF BOND WILL BE HOLDING THEM TOGETHER?
Will it be covalent (polar or non-polar), ionic, or metallic?

20. Mo
What bond? Why?

21. KBr
What bond? Why?

22. Sr_3N_2
What bond? Why?

23. CaRb
What bond? Why?

24. BrAt
What bond? Why?

25. $SiBr_4$
What bond? Why?