

NAME: _____

CHEMICAL BONDING PRACTICE QUIZ

1. USE YOUR PERIODIC TABLE TO DRAW AN ATOM OF SULFUR.

PROTONS _____

NEUTRONS _____

ELECTRONS _____

2. HOW MANY VALENCE ELECTRONS DOES SULFUR HAVE? _____

3. IS SULFUR STABLE? _____

4. TO BECOME STABLE, SULFUR COULD GAIN _____ ELECTRONS OR LOSE _____ ELECTRONS.

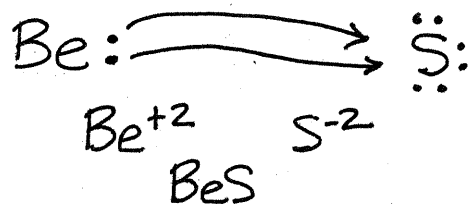
5. REFER TO #4. WHICH CHOICE IS EASIER FOR SULFUR? _____

6. DRAW A DOT DIAGRAM FOR SULFUR. _____

7. IF SULFUR GAINS 2 MORE ELECTRONS IT BECOMES MORE _____ BY _____.

8. WRITE THE ION FOR SULFUR. _____

9. USE THE DRAWING BELOW TO ANSWER THE QUESTIONS THAT FOLLOW.



- a. WHAT TYPE OF BOND IS THIS? IONIC OR COVALENT
 b. EXPLAIN WHAT IS HAPPENING IN THE PICTURE. _____

10. USE YOUR PERIODIC TABLE TO DRAW AN ATOM OF CALCIUM.

PROTONS _____

* ASSUME 4TH E-LEVEL CAN HOLD 8.

NEUTRONS _____

ELECTRONS _____

11. HOW MANY VALENCE ELECTRONS DOES CALCIUM HAVE? _____

12. IS CALCIUM STABLE? _____

13. TO BECOME STABLE, CALCIUM CAN GAIN _____ ELECTRONS OR LOSE _____ ELECTRONS.

14. REFER TO #13. WHICH CHOICE IS EASIER FOR CALCIUM? _____

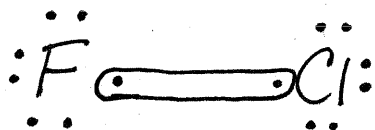
15. DRAW A DOT DIAGRAM OF CALCIUM. _____

16. IF CALCIUM LOSES 2 ELECTRONS IT BECOMES MORE _____ BY _____.

17. WRITE THE ION FOR CALCIUM. _____

18. IF ONE ATOM WANTS TO SHARE ELECTRONS WITH CALCIUM, A _____ BOND WILL BE FORMED.

19. USE THE DRAWING BELOW TO ANSWER THE QUESTIONS THAT FOLLOW.



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a. WHAT TYPE OF BOND IS THIS? IONIC OR COVALENT?

b. EXPLAIN WHAT IS HAPPENING IN THIS PICTURE? _____

20. WHAT DO WE CALL TWO OR MORE ATOMS THAT ARE COVALENTLY BONDED? _____ AN EXAMPLE IS _____