

Name: _____

Period: _____ Date: _____

Bond Type Prediction *Practice Sheet*

Question #	First element	Second element	Math	Bond type
1	C	Cl		
2	C	F		
3	C	H		
4	Cl	Cl		
5	Cs	F		
6	Cu	Zn		
7	Fe	O		
8	Fe	V		
9	H	H		
10	H	O		
11	H	S		
12	He	Al		
13	N	H		
14	N	N		
15	N	O		
16	Na	Cl		
17	Na	O		
18	Ne	Xe		
19	O	O		
20	Pb	Sn		
21	Si	Cl		
22	Si	O		

Bond Type Prediction Practice Sheet

FILL IN THE BLANK

1. _____ is the tendency of an element to draw electrons toward itself when it forms bonds with other elements.
2. What kind of bond results from atoms stealing electrons from each other? _____
3. In what kind of bond do two atoms share an electron pair with each other? _____
4. In what kind of bond do a whole bunch of atoms get glued together by a "sea" of shared electrons? _____
5. In what kind of bond is an electron pair shared with 50/50 (or almost 50/50) equality? _____
6. In what kind of bond is an electron pair shared, but significantly unequally? _____
7. What happens to an atom when it shares an electron pair with an atom that has a higher electronegativity than it has?

8. What determines the kind of bond that forms between two atoms? _____
9. How big does the electronegativity difference between two atoms have to be in order for the two atoms to form an ionic bond? _____
10. How low does the electronegativity difference have to be for two atoms to have a nonpolar covalent bond between them? _____
11. Draw Lewis structures for the following.

NaCl

CCl₄

KI

MgCl₂

SiO₂