Name			HONORS - Bond and Molecular Polarity Review			
Compound	EN	Name the Compound	Individual Bonds NPC, PC or I	Electron Dot Structure Include All Valence Electrons		
SiBr ₄	Si = 1.8 Br = 2.8					
H₂S	H = 2.1 S = 2.5					
NBr ₃	N = 3.0 Br = 2.8					
PI ₃	P = 2.1 I = 2.5					
CO ₂	C = 2.5 O = 3.5					
CH ₄	C = 2.5 H = 2.1					
O ₂	O = 3.5					
1. Define	e Covalent	Bond:				
2. What	does "Pola	r" mean?				
3. Expla	n the diffe	rence between a μ	polar covalent BO	OND and a nonpolar covalent BOND		
4. What is the difference between a polar bond and a polar molecule ?						

5.	Why is it possible to have Polar Bonds, but <u>not</u> a Polar Molecule	≘?				
6.	5. In a polar covalent bond, where do the electrons move?					
7.	F = 4.0, O = 3.5, C = 2.5, Mg = 1.2					
8.	8. In an Electron Dot Diagram, the central atom is the atom with the a. Fewest e-, b. Lowest EN, c. Highest Atomic #, d. Highest mass, e. most radioactive, f. Needs the most e-					
9.	Which substance has $\underline{3}$ single covalent bonds? $CO_2 N_2 F_2 O_2 NH_3$	10. All the bonds below are polar, but which molecules are polar? CH ₄ BF ₃ H ₂ O CO ₂ HF				
11	. Which substances are NOT Covalent? H ₂ O, NaCl, SiF ₄ , NBr ₃ , MgO	12. Covalent Substances are primarily between (type of elements):				
13	. Which substance(s) have one double bond? CO ₂ N ₂ F ₂ O ₂ NH ₃	14. Which substance(s) have a triple bond? CO ₂ N ₂ F ₂ O ₂ NH ₃				