This quiz is take-home and open book, and it is intended that all members of the group contribute to completing it. It is a violation of the Academic Honor Code to sign a quiz that you did not work on. The quiz is due at the end of class on Thursday, October 19.

## <u>List names in alphabetical order, and print them clearly!</u> Put names on all pages, and staple pages together

				<u> </u>		
				-		
Points				-		
(4)	1.	Give the <b>empirical formulas</b> f (a) magnesium phosphate		llowing ionic co (b) aluminum		
		(c) iron (III) carbonate		(d) zinc perchl	lorate	
		(e) ammonium bromite		(f) copper (II)	cyanide	
		(g) sodium hypochlorite		(h) potassium	dihydrogen phosphate	
(3)	2.	Name the following inorganic $c$ (a) $SF_6$	covalent o (b) IF <sub>5</sub>		(c) PCl <sub>5</sub>	
		(d) P <sub>4</sub> S <sub>6</sub>	(e) Xeo	$O_3$	(f) CBr <sub>4</sub>	
(2)	3.	Name the following ionic compounds.				
		(a) CuBr <sub>2</sub>		(b) FeCl <sub>3</sub>		
		(c) NH <sub>4</sub> CN		(d) KNO <sub>2</sub>		

		•	
List names in alp	ohabetical order.	Be sure to staple	pages together!

(6) 4. For the following covalent compounds, draw the **Lewis dot structure**. Indicate the **geometrical shape** of the molecule in the blank, (while drawing the shape as best you can for the Lewis structure). Draw an **arrow** over each bond in the Lewis dot structure, showing the direction of polarity of the bond (arrow pointing to the more electronegative atom), and tell whether the molecule as a whole will be **polar** or **non-polar**.

Molecular Lewis Geometrical Polar Formula Structure Shape Molecule?

 $NF_3$ 

BF<sub>3</sub>

 $SO_2$ 

 $CO_2$