Chemistry--Unit 2: Chemical Names and Formulas Intro to Naming and Formula Writing Worksheet

Name_ Combining Formulas of Name of Formula of Compound Compound **Substances** <u>Ions</u> magnesium ion chloride ion aluminum ion & bromide ion sodium ion & oxide ion iron (II) ion & sulfide ion aluminum ion & nitrate ion potassium ion & sulfate ion ammonium ion & sulfide ion iron (III) ion & phosphate ion iron (II) ion & sulfate ion

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1.	Some elements have more than one oxidation number. To show the oxidation number of such elements in a compound, a Roman numeral is given in the name of the compound. Give the names of the following compounds.						
	a) UF ₅						
	b) VF ₄						
c) MoCl ₆							
2.	2. Twenty different possible compounds can be made that 1) contain mangane the cation and 2) contain a polyatomic anion made up of bromine and oxyg the four formulas and names of the compounds described above that have I their cation.						
	difference in	Looking at your answers, and examining the polyatomic ion chart, what's the lifference in the ion when perate, -ate, -ite, and hypoite are used? Be pecific in your answer.					
3.	Which of the following are molecular formulas? Circle them.						
	H_2O	C_4H_8O	O_2	NaBr	MnSO ₄	CH ₄	
	CuCl	Ba(He	$CO_3)_2$	$K_2Cr_2O_7$	NO_2	$MgCl_2$	
	Classify the compounds above by writing their formulas under the proper heading below. If more than one category can be used to classify the compound, write it under each that applies. binary compound binary ionic compound binary molecular compound					write it	
	ternary comp	<u>ound</u>	ternary ionic	compound	ternary molecula	ar compound	