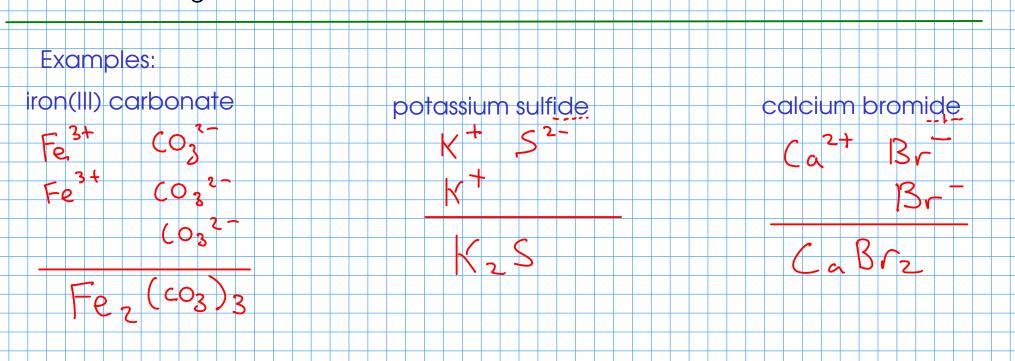
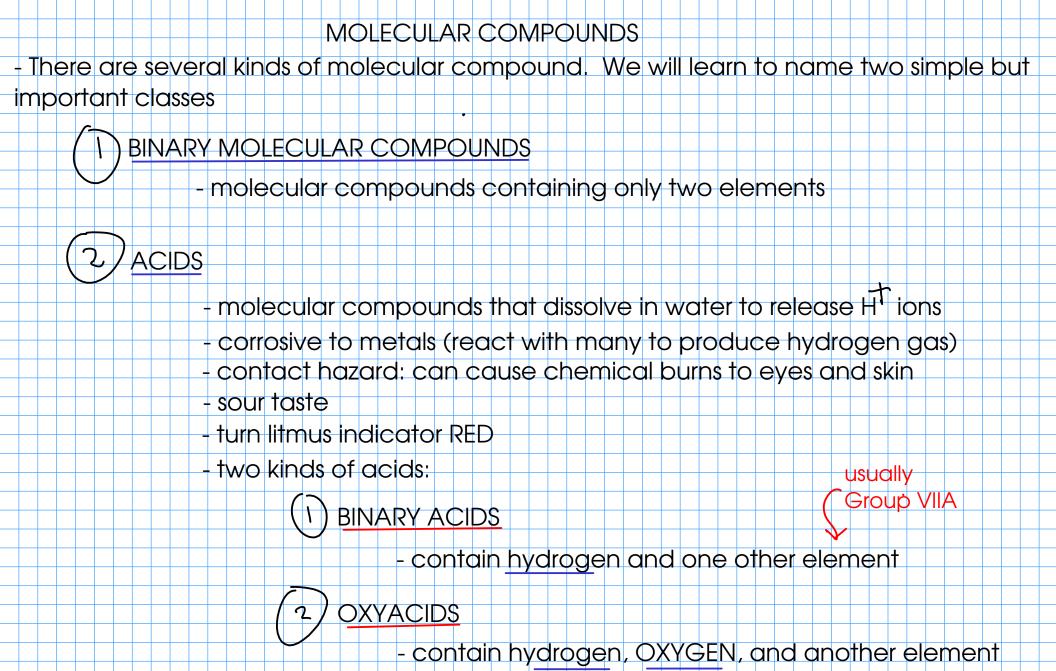


DETERMINING THE FORMULA OF AN IONIC COMPOUND FROM THE NAME

- The name of an ionic compound is made of the names of the CATION and ANION in the compound.
- To get the FORMULA, you must figure out the SMALLEST RATIO of cation to anion that makes the charges balance out



DETERMINING IONIC FORMULAS sodium sulfate strontium oxide Sro Na2 504 tin(II) phosphate chromium(III) nitrate titanium(IV) chloride barium hydroxide



BINARY MOLECULAR COMPOUNDS

- Named based on the elements they contain, plus prefixes to indicate the number of atoms of each element in each molecule

(1) FIRST ELEMENT

- Add a GREEK PREFIX to the name of the element.
- Omit the "MONO-" (1) prefix if there is only one atom of the first element

2 SECOND ELEMENT

- Add a GREEK PREFIX to the STEM NAME of the element
- Add the suffix <u>"-id</u>e" (as if you were naming an anion)
- DO NOT omit the "mono-" prefix if there is only one atom of the second element

MEMORIZE THE GREEK PREFIXES. SEE COURSE WEB SITE FOR A LIST!

	BINARY MOLECULAR C	OMPOUNDS	
Examples: 5 5 boron trifluoride	Cl207 dichlorine heptaoxide	carbon monoxide carbon dioxide	4
carbon tetrachloride	dihydrogen mono	xide dinitrogen tetrafluoride	
discussed	pound is called "magnesiums compound is IONIC, and is If for ionic compounds. is a metal!)	chloride", NOT "magnesium dichloride". named using the system we	
			1

