OXYACID EXAMPLES







100



* The number of hydrogen ions to add to the polyatomic to make the acid equals the charge of the polyatomic.

SUMMING UP CHEMICAL NOMENCLATURE

- You need to be able to tell, by looking at a name OR a formula, what kind of compound you are working with!

DON'T GET THE NAMING SYSTEMS MIXED UP! EACH KIND OF COMPOUND IS NAMED WITH ITS OWN SYSTEM!

FROM A CHEMICAL NAME

- If the name has a Roman numeral, the name of a metal, or "ammonium", the compound is likely IONIC

- If the name has a Greek prefix, the compound is BINARY MOLECULAR

- If the name contains the word "acid":

... and starts with "hydro-", then the compound is a BINARY ACID

... and does not start with "hydro-", the compound is an OXYACID

- if the formula contains a metal or the NH_4^+ ion, it is likely IONIC

H20 H202

- If the formula starts with H and is not either water or hydrogen peroxide, the compound is likely an <u>ACID</u>. Which kind?

BINARY ACIDS contain only two elements

- OXYACIDS contains oxygen

 If the formula contains only nonmetals (and is not an ammonium compound or an acid), the compound is likely MOLECULAR

Examples:

 BINARY MOLECULAR
 NHU
 IONIC (ammonium ion)

 Name: phosphorus trichloride
 NHU
 Name: ammonium chloride

 $\frac{1}{1} + \frac{3}{2} + \frac{1}{1} + \frac{1}$

$$Fe^{3t} soy^{2}$$

$$Soy^{2}$$

$$Soy^{2}$$