- The name of the compound is based on the name of the ions in the compound

- Cation first, anion second (drop the word "ion")

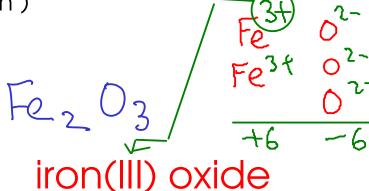
Examples:

magnesium hydroxide

NazS

sodium sulfide

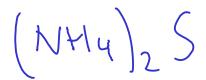
Be Brz beryllium bromide



copper(II) oxide

$$\frac{\left(u^{2}\right)^{2}}{\frac{\left(u^{2}\right)^{2}}{+2^{-2}}}$$
copper(I) oxide

Remember to include the Roman numeral for CHARGE in the name of transition metal compounds!



## ammonium sulfide

titanium(IV) sulfide

$$(a(N0_3)_2$$

calcium nitrate



iron(ll) carbonate

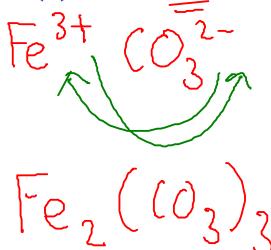
barium phosphate

barium phosphide

- 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

## **Examples:**

iron(III) carbonate



potassium sulfide

calcium bromide

## DETERMINING IONIC FORMULAS

sodium sulfate

Nat 5042-Nat strontium oxide

Naz Soy tin(II) phosphate chromium(III) nitrate

chromium(III) nitride

Sn2+ P043

titanium(IV) chloride

titanium(IV) oxide

Sn3 (PO4)2

barium hydroxide



be careful with compounds that contain more than one hydroxide, cyanide, or hypochlorite ion ... don't forget the parenthesis before you add the subscript!