NaminG	<b>CompoUnds</b>	& CoUntinC	<b>atoms</b>
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	Y	***************************************		so you don't ] I haven	mes & Numbers  the been and how do your yet, so friends coll you, then?
Determin	•				t been and how do your
	ne the chemical formula	s for the followin	g:	nape! I'm still	
Co	alcium + Chlorine	Silver + H	-lydroxide	Copper (II)	) + Nitrogen
Write Ions	Here Write Formula Here	Write Ions Here	Write Formula Here	Write Ions Here	Write Formula Here
Ca <sup>2+</sup>	CaCl2	Ag TOH	AgoH	Cu N3-	Cu <sub>3</sub> N <sub>2</sub>
What	is in a <b>Na</b> me?			•••••••••	
<ul> <li>The name of the metal ion is written and spelled exactly the same as the element name</li> <li>ex. Al is</li> </ul>					
<ul> <li>Naming Non-Metal lons</li> <li>The name of the non-metal ion is written</li></ul>					
Namina	Poluatomic Ions				
<ul> <li>Naming Polyatomic lons</li> <li>Positive polyatomic ions are written <u>first</u>. There is only one, which is <u>NHH</u>.</li> <li>Negative polyatomic ions are written <u>second</u> and the name of the ion is not changed.</li> <li>ex. SO<sub>4</sub><sup>2-</sup> is <u>sulfate</u></li> </ul>					
Naming	Multivalent Metals				

## Ihe □UmmaRy

NEGATIVE (non-metal) ION \$ECOND

## Put it into Practice

	IONS	NAME OF COMPOUND	FORMULA
1	K <sup>+1</sup> Cl <sup>-1</sup>	potassium chloride	KCI
2	Na <sup>+1</sup> N <sup>-3</sup>	sodium nitride	NazN
3	Ca OH	calcium hydroxide	Ca (OH) <sub>2</sub>
4	A13+ OH-	aluminum hydroxide	Al(OH) <sub>3</sub>
5	K N 3-	potassium nitride	K <sub>3</sub> N
6	Ca 2+ 2-	calcium oxide	CaO
7	Nat CI	sodium chloride	NaCl
8	Fe <sup>+2</sup> 0 <sup>2-</sup>	iron (II) oxide	FeO

9	Fe <sup>3+</sup> 0 <sup>2-</sup>	iron (III) oxide	Fe203
10	Mg 2+ PO4	magnesium phosphate	Mg3 (PO4)2
11	Fe (III) Cl	ion (III) chloride	Fe Cl3
12	K+ PO43-	potassium phosphate	K3P04
13	H <sup>+</sup> OH	hydrogen hydroxide (should be able to tell this is ionic because hydroxide = ion)	HOH
14	Ca CO3	calcium carbonate	CaCOz

Ihe Last Bit	
Counting Atoms 123455189912	34551890123455189
A small number called a <u>subscript</u> the number of atoms of an element in that com	, right next to a letter, indicates pound.
If the subscript is next to a <u>bracket</u> inside the bracket by that number.	, then it multiples every element

How many atoms of each element are in the compounds below?

Fe2O3 Fe O 1Fe 10

Fe(OH)2 FeOH2

1 Fe 20 2H 1 Fe 10 2H