

+1		Monatomic Ions										(-ide for monatomic anions)					0
+1	+2	Roman numeral for blank metals or All metal ions have a Roman Numeral in their name except those in group I, II and the triangle										+3		-3	-2	-1	0
+1	+2										+2	+3		-3	-2	-1	0
+1	+2									+1	+2	+3			-2	-1	0
+1	+2															-1	0
+1	+2																0

Polyatomic Ions

use () around the ion if there is more than one in formula

-ate	This ending is given to the most common combination of the element, oxygen and charge. Memorize these ions! They do tend to run in families however nitrate is not like the rest of group 15 oxy-ions.
-ite	one less O, same charge as the “-ate” ion
hypo- -ite	two less O’s, same charge as the “-ate” ion
per- -ate	one more O, same charge as the “-ate” ion

Common Polyatomic Ions				
+1	+2	-1	-2	-3
ammonium, NH_4^+ hydronium, H_3O^+	mercury(I), Hg_2^{+2}	acetate, CH_3COO^- or $\text{C}_2\text{H}_3\text{O}_2^-$ bicarbonate or hydrogen carbonate, HCO_3^- bisulfate or hydrogen sulfate, HSO_4^- bromate, BrO_3^- chlorate, ClO_3^- chlorite, ClO_2^- cyanide, CN^- hydroxide, OH^- hypochlorite, ClO^- iodate, IO_3^- nitrate, NO_3^- nitrite, NO_2^- perchlorate, ClO_4^- permanganate, MnO_4^- thiocyanate, SCN^-	carbonate, CO_3^{-2} chromate, CrO_4^{-2} dichromate, $\text{Cr}_2\text{O}_7^{-2}$ oxalate, $\text{C}_2\text{O}_4^{-2}$ peroxide, O_2^{-2} silicate, SiO_3^{-2} sulfate, SO_4^{-2} sulfite, SO_3^{-2} tartrate, $\text{C}_4\text{H}_4\text{O}_6^{-2}$ tetraborate, $\text{B}_4\text{O}_7^{-2}$ thiosulfate, $\text{S}_2\text{O}_3^{-2}$	phosphate, PO_4^{-3} arsenate, AsO_4^{-3}

Please don't procrastinate memorizing these ions.