

Polyatomic Ions	
Ion Name	Formula
hydronium	H <sub>3</sub> O <sup>+</sup>
ammonium	NH <sub>4</sub> <sup>+</sup>
acetate	C <sub>2</sub> H <sub>3</sub> O <sub>2</sub> <sup>-</sup>
carbonate	CO <sub>3</sub> <sup>2-</sup>
hypochlorite	ClO <sup>-</sup>
chlorite	ClO <sub>2</sub> <sup>-</sup>
chlorate	ClO <sub>3</sub> <sup>-</sup>
perchlorate	ClO <sub>4</sub> <sup>-</sup>
chromate	CrO <sub>4</sub> <sup>2-</sup>
cyanide	CN <sup>-</sup>
dichromate	Cr <sub>2</sub> O <sub>7</sub> <sup>2-</sup>
hydrogen carbonate	HCO <sub>3</sub> <sup>-</sup>
hydrogen sulfate	HSO <sub>4</sub> <sup>-</sup>
hydroxide	OH <sup>-</sup>
nitrate	NO <sub>3</sub> <sup>-</sup>
nitrite	NO <sub>2</sub> <sup>-</sup>
permanganate	MnO <sub>4</sub> <sup>-</sup>
phosphate	PO <sub>4</sub> <sup>3-</sup>
sulfate	SO <sub>4</sub> <sup>2-</sup>
hydrogen phosphate	HPO <sub>4</sub> <sup>2-</sup>
x oxalate	C <sub>2</sub> O <sub>4</sub> <sup>2-</sup>
x sulfite	SO <sub>3</sub> <sup>2-</sup>
x phosphite	PO <sub>3</sub> <sup>3-</sup>
x arsenate	AsO <sub>4</sub> <sup>3-</sup>
x arsenite	AsO <sub>3</sub> <sup>3-</sup>
x tellurate	TeO <sub>4</sub> <sup>2-</sup>
x tellurite	TeO <sub>3</sub> <sup>2-</sup>
x selenate	SeO <sub>4</sub> <sup>2-</sup>
x selenite	SeO <sub>3</sub> <sup>2-</sup>
x hypoiodite	IO <sup>-</sup>
x iodate	IO <sub>3</sub> <sup>-</sup>
x iodite	IO <sub>2</sub> <sup>-</sup>
x periodate	IO <sub>4</sub> <sup>-</sup>
x hypobromite	BrO <sup>-</sup>
x bromite	BrO <sub>2</sub> <sup>-</sup>
x bromate	BrO <sub>3</sub> <sup>-</sup>
x perbromate	BrO <sub>4</sub> <sup>-</sup>
x hypofluorite	FO <sup>-</sup>
x fluoride	FO <sub>2</sub> <sup>-</sup>
x fluorate	FO <sub>3</sub> <sup>-</sup>
x perfluorate	FO <sub>4</sub> <sup>-</sup>

Metals	
Element Name	Symbol
aluminum	Al
barium	Ba
beryllium	Be
calcium	Ca
cesium	Cs
hydrogen	H
lithium	Li
magnesium	Mg
potassium	K
rubidium	Rb
sodium	Na
strontium	Sr
cadmium	Cd
silver	Ag
zinc	Zn

VOS Metals	
Element Name	Symbol
cobalt	Co
copper	Cu
iron	Fe
lead	Pb
mercury	Hg
tin	Sn
manganese	Mn
titanium	Ti
nickel	Ni
chromium	Cr

Nonmetal Neutral Elements	
Element Name	Symbol
bromine	Br
chlorine	Cl
fluorine	F
iodine	I
nitrogen	N
oxygen	O
phosphorous	P
sulfur	S
selenium	Se
tellurium	Te

Nonmetal Ions	
Ion Name	Formula
bromide	Br <sup>-</sup>
chloride	Cl <sup>-</sup>
fluoride	F <sup>-</sup>
iodide	I <sup>-</sup>
nitride	N <sup>3-</sup>
oxide	O <sup>2-</sup>
phosphide	P <sup>3-</sup>
sulfide	S <sup>2-</sup>
selenide	Se <sup>2-</sup>
telluride	Te <sup>2-</sup>

Noble Gases	
Element Name	Symbol
argon	Ar
helium	He
krypton	Kr
neon	Ne
xenon	Xe

an "x" means that you do not have to have that ion memorized