

List of Polyatomic Ions to memorize every week include the following:

<p>Week 1 "-ate and -ite" Rule</p>	<p>NO_2^{-1} NO_3^{-1} ClO_2^{-1} ClO_3^{-1} CO_3^{-2} SiO_3^{-2}</p>	<p>Nitrite Nitrate Chlorite Chlorate Carbonate Silicate</p>
<p>Week 2 "Exceptions..." Rule</p>	<p>SO_3^{-2} SO_4^{-2} PO_3^{-3} PO_4^{-3} CrO_4^{-2} $\text{Cr}_2\text{O}_7^{-2}$</p>	<p>Sulfite Sulfate Phosphite Phosphate Chromate Dichromate</p>
<p>Week 3 "Hydrogen" Rule</p>	<p>HSO_3^{-1} HSO_4^{-1} HPO_4^{-2} $\text{H}_2\text{PO}_4^{-1}$ HCO_3^{-1}</p>	<p>Hydrogen Sulfite Hydrogen Sulfate Hydrogen Phosphate Dihydrogen Phosphate Hydrogen Carbonate</p>
<p>Week 4 "Hypo- and Per-" Rule</p>	<p>ClO^{-1} ClO_2^{-1} ClO_3^{-1} ClO_4^{-1} MnO_4^{-1}</p>	<p>Hypochlorite Chlorite Chlorate Perchlorate Permanganate</p>
<p>Week 5 "Oddities" Rule</p>	<p>CN^{-1} OH^{-1} $\text{C}_2\text{O}_4^{-2}$ $\text{C}_2\text{H}_3\text{O}_2^{-1}$ NH_4^{+1}</p>	<p>Cyanide Hydroxide Oxalate Acetate Ammonium</p>

The polyatomic ions listed for each week (above) will definitely be on the weekly quiz - PLUS any of the preceding weeks' polyatomic ions.

Additionally, you will need to recognize the PREFIX element of the polyatomic in order to name the polyatomic correctly. These element names and their symbols must be memorized by the end of the first week of school!

Sometimes the entire first element is named - sometimes the element name is cut off!

Element Name	Symbol	Prefix Used
Carbon	C	Carbon-
Chlorine	Cl	Chlor-
Chromium	Cr	Chrom-
Hydrogen	H	Hydrogen
Manganese	Mn	Mangan-
Nitrogen	N	Nitr-
Oxygen	O	<i>Never used as prefix</i>
Phosphorous	P	Phosph-
Silicon	Si	Silic-
Sulfur	S	Sulf-