**COMMON IONS CHEAT SHEET**

\*In alphabetical order – you’re welcome ☺

Monatomic Ions

(the –ide’s)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***1-*** | | ***2-*** | | ***3-*** | |
| Br - | Bromide | O 2- | Oxide | N 3- | Nitride |
| Cl - | Chloride | Se 2- | Selenide | P 3- | Phosphide |
| F - | Fluoride | S 2- | Sulfide |  |  |
| I - | Iodide |  |  |  |  |

Polyatomic Ions

(mostly the –ate’s and –ite’s with a few others thrown in)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| ***1+*** | | ***1-*** | | ***2-*** | | ***3-*** | |
| NH4+ | Ammonium | CH3COO- | Acetate or | CO3 2- | Carbonate | AsO43- | Arsenate |
| H3O+ | Hydronium | C2H3O2- | Acetate | CrO42- | Chromate | BO33- | Borate |
|  |  | HCO3- | Bicarbonate | Cr2O72- | Dichromate | PO43- | Phosphate |
|  |  | BrO3- | Bromate | SeO42- | Selenate | PO33- | Phosphite |
|  |  | ClO3- | Chlorate | SO42- | Sulfate |  |  |
|  |  | ClO2- | Chlorite | SO32- | Sulfite |  |  |
|  |  | CN- | Cyanide | SiO32- | Silicate |  |  |
|  |  | IO3- | Iodate | C4H4O62- | Tartrate |  |  |
|  |  | OH- | Hydroxide | S2O32- | Thiosulfate |  |  |
|  |  | NO3- | Nitrate |  |  |  |  |
|  |  | NO2- | Nitrite |  |  |  |  |
|  |  | MnO4- | Permanganate |  |  |  |  |

Acids and Bases to Know

|  |  |  |  |
| --- | --- | --- | --- |
| NH3 | Ammonia | HCl | Hydrochloric acid |
| HC2H3O2 | Acetic Acid  (or vinegar) | HNO3 | Nitric Acid |
| CH3COOH | H3PO4 | Phosphoric Acid |
| H2CO3 | Carbonic Acid | H2SO4 | Sulfuric Acid |