**Chemistry**

Element List

You should be able to identify the element or symbol when the other is given.

| ***Symbol*** | ***Element*** | ***Symbol*** | ***Element*** |
| --- | --- | --- | --- |
| H | Hydrogen | Hg | Mercury |
| Li | Lithium | B | Boron |
| Na | Sodium | Al | Aluminum |
| K | Potassium | Ga | Gallium |
| Be | Beryllium | C | Carbon |
| Mg | Magnesium | Si | Silicon |
| Ca | Calcium | Ge | Germanium |
| Mn | Manganese | N | Nitrogen |
| Fe | Iron | P | Phosphorus |
| Co | Cobalt | O | Oxygen |
| Ni | Nickel | S | Sulfur |
| Pt | Platinum | F | Fluorine |
| Cu | Copper | Cl | Chlorine |
| Ag | Silver | Br | Bromine |
| Au | Gold | I | Iodine |
| Zn | Zinc | He | Helium |
| Ne | Neon | Ar | Argon |
| As | Arsenic | Kr | Krypton |
| Sn | Tin | Xe | Xenon |
| Ba | Barium | Pb | Lead |
| W | Tungsten | Cr | Chromium |

## **Polyatomic Ions**

You should be able to identify the ion or the symbol and charge when the other is given.

| ***Ion*** | ***Name*** | ***Ion*** | ***Name*** |
| --- | --- | --- | --- |
| NH4 + | Ammonium | CO3 2- | Carbonate |
| NO2 - | Nitrite | SO3 2- | Sulfite |
| NO3 - | Nitrate | SO4 2- | Sulfate |
| HSO4 - | Hydrogen sulfate  (or bisulfate) | C2H3O2 –  (or CH3COO -) | Acetate |
| OH - | Hydroxide | IO3 - | Iodate |
| CN - | Cyanide | O2 2- | Peroxide |
| MnO4 - | Permanganate | CrO4 2- | Chromate |
| HCO3 - | Hydrogen carbonate  (or bicarbonate) | Cr2O7 2-  PO4 3- | Dichromate  Phosphate |
| ClO- | \* Hypochlorite | HPO4 2- | Hydrogen phosphate |
| ClO2 - | \* Chlorite | H2PO4 1- | biphosphate |
| ClO3 - | \* Chlorate | AsO4 3- | Arsenate |
| ClO4 - | \* Perchlorate | SCN - | Thiocyanate |

\* Oxyanions of Bromine (Br) and Iodine (I) will have the same nomenclature as seen with Chlorine