*GROUP ONE:*

*Elements & Symbols to Memorize\**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **#** | **Element** | **Symbol** |  | **#** | **Element** | **Symbol** |
| 1 | Hydrogen | H |  | 21 | Scandium | Sc |
| 2 | Helium | He |  | 22 | Titanium | Ti |
| 3 | Lithium | Li |  | 23 | Vanadium | V |
| 4 | Beryllium | Be |  | 24 | Chromium | Cr |
| 5 | Boron | B |  | 25 | Manganese | Mn |
| 6 | Carbon | C |  | 26 | Iron | Fe |
| 7 | Nitrogen | N |  | 27 | Cobalt | Co |
| 8 | Oxygen | O |  | 28 | Nickel | Ni |
| 9 | Fluorine | F |  | 29 | Copper | Cu |
| 10 | Neon | Ne |  | 30 | Zinc | Zn |
| 11 | Sodium | Na |  | 31 | Gallium | Ga |
| 12 | Magnesium | Mg |  | 32 | Germanium | Ge |
| 13 | Aluminum | Al |  | 33 | Arsenic | As |
| 14 | Silicon | Si |  | 34 | Selenium | Se |
| 15 | Phosphorus | P |  | 35 | Bromine | Br |
| 16 | Sulfur | S |  | 36 | Krypton | Kr |
| 17 | Chlorine | Cl |  | 37 | Rubidium | Rb |
| 18 | Argon | Ar |  | 38 | Strontium | Sr |
| 19 | Potassium | K |  | 39 | Yittrium | Y |
| 20 | Calcium | Ca |  | 40 | Zirconium | Zr |

\* When studying, you only need to memorize the element name

and symbol (you do NOT need to memorize the number)\*

*GROUP TWO:*

*Elements & Symbols to Memorize\**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **#** | **Element** | **Symbol** |  | **#** | **Element** | **Symbol** |
| 41 | Niobium | Nb |  | 72 | Hafnium | Hf |
| 42 | Molybdenum | Mo |  | 73 | Tantalum | Ta |
| 43 | Technetium | Tc |  | 74 | Tungsten | W |
| 44 | Ruthenium | Ru |  | 75 | Rhenium | Re |
| 45 | Rhodium | Rh |  | 76 | Osmium | Os |
| 46 | Palladium | Pd |  | 77 | Iridium | Ir |
| 47 | Silver | Ag |  | 78 | Platinum | Pt |
| 48 | Cadmium | Cd |  | 79 | Gold | Au |
| 49 | Indium | In |  | 80 | Mercury | Hg |
| 50 | Tin | Sn |  | 81 | Thallium | Tl |
| 51 | Antimony | Sb |  | 82 | Lead | Pb |
| 52 | Tellurium | Te |  | 83 | Bismuth | Bi |
| 53 | Iodine | I |  | 84 | Polonium | Po |
| 54 | Xenon | Xe |  | 85 | Astatine | At |
| 55 | Cesium | Cs |  | 86 | Radon | Rn |
| 56 | Barium | Ba |  | 87 | Francium | Fr |
| 57 | Lanthanum | La |  | 88 | Radium | Ra |
| 58 | Cerium | Ce |  | 89 | Actinium | Ac |
| 63 | Europium | Eu |  | 90 | Thorium | Th |
| 68 | Erbium | Er |  | 92 | Uranium | U |

\* When studying, you only need to memorize the element name

and symbol (you do NOT need to memorize the number)\*