## **Alphabetical List of Elements**

| Element               | Symbol              | <b>Atomic Number</b> | Element                | Symbol              | <b>Atomic Number</b> |
|-----------------------|---------------------|----------------------|------------------------|---------------------|----------------------|
| Actinium              | Ac                  | 89                   | Neodymium              | Nd                  | 60                   |
| Aluminum              | Al                  | 13                   | Neon                   | Ne                  | 10                   |
| Americium             | Am                  | 95                   | Neptunium              | Np                  | 93                   |
| Antimony              | Sb                  | 51                   | Nickel                 | Ni                  | 28                   |
| Argon                 | Ar                  | 18                   | Niobium                | Nb                  | 41                   |
| Arsenic               | As                  | 33                   | Nitrogen               | N                   | 7                    |
| Astatine              | At                  | 85                   | Nobelium               | No                  | 102                  |
| Barium                | Ba                  | 56                   | Osmium                 | Os                  | 76                   |
| Berkelium             | Bk                  | 97                   | Oxygen                 | O                   | 8                    |
| Beryllium             | Be                  | 4                    | Palladium              | Pd                  | 46                   |
| Bismuth               | Bi                  | 83                   | Phosphorus             | P                   | 15                   |
| Bohrium               | Bh                  | 107                  | Platinum               | Pt                  | 78                   |
| Boron                 | В                   | 5                    | Plutonium              | Pu                  | 94                   |
| Bromine               | $\operatorname{Br}$ | 35                   | Polonium               | Po                  | 84                   |
| Cadmium               | Cd                  | 48                   | Potassium              | K                   | 19                   |
| Calcium               | Ca                  | 20                   | Praseodymium           | $\Pr$               | 59                   |
| Californium           | Cf                  | 98                   | Promethium             | Pm                  | 61                   |
| Carbon                | C                   | 6                    | Protactinium           | Pa                  | 91                   |
| Cerium                | Ce                  | 58                   | Radium                 | Ra                  | 88                   |
| Cesium                | Cs                  | 55                   | Radon                  | Rn                  | 86                   |
| Chlorine              | Cl                  | 17                   | Rhenium                | Re                  | 75                   |
| Chromium              | Cr                  | 24                   | Rhodium                | Rh                  | 45                   |
| Cobalt                | Co                  | 27                   | Rubidium               | Rb                  | 37                   |
| Copper                | Cu                  | 29                   | Ruthenium              | Ru                  | 44                   |
| Curium<br>Dubnium     | Cm                  | 96                   | Rutherfordium          | Rf                  | 104                  |
|                       | Db                  | 105                  | Samarium               | Sm                  | 62                   |
| Dysprosium            | Dy                  | 66                   | Scandium               | Sc                  | 21                   |
| Einsteinium<br>Erbium | Es<br>Er            | 99<br>68             | Seaborgium<br>Selenium | Sg<br>Se            | 106<br>34            |
| Europium              | Eu                  | 63                   | Silicon                | Se<br>Si            | 34<br>14             |
| Fermium               | Fm                  | 100                  | Silver                 |                     | 47                   |
| Fluorine              | F                   | 9                    | Sodium                 | Ag<br>Na            | 11                   |
| Francium              | Fr                  | 87                   | Strontium              | Sr                  | 38                   |
| Gadolinium            | Gd                  | 64                   | Sulfur                 | S                   | 16                   |
| Gallium               | Ga                  | 31                   | Tantalum               | Ta                  | 73                   |
| Germanium             | Ge                  | 32                   | Technetium             | Tc                  | 43                   |
| Gold                  | Au                  | 79                   | Tellurium              | Te                  | 52                   |
| Hafnium               | Hf                  | 72                   | Terbium                | Tb                  | 65                   |
| Hassium               | Hs                  | 108                  | Thallium               | Tl                  | 81                   |
| Helium                | He                  | 2                    | Thorium                | Th                  | 90                   |
| Holmium               | Но                  | 67                   | Thulium                | Tm                  | 69                   |
| Hydrogen              | Н                   | 1                    | Tin                    | Sn                  | 50                   |
| Indium                | In                  | 49                   | Titanium               | Ti                  | 22                   |
| Iodine                | I                   | 53                   | Tungsten               | W                   | 74                   |
| Iridium               | Ir                  | 77                   | Ununbium               | Uub                 | 112                  |
| Iron                  | Fe                  | 26                   | Ununhexium             | Uuh                 | 116                  |
| Krypton               | Kr                  | 36                   | Ununnilium             | Uun                 | 110**                |
| Lanthanum             | La                  | 57                   | Ununoctium             | Uuo                 | 118                  |
| Lawrencium            | $\operatorname{Lr}$ | 103                  | Ununquadium            | Uuq                 | 114                  |
| Lead                  | Pb                  | 82                   | Unununium              | Uuu                 | 111                  |
| Lithium               | Li                  | 3                    | Uranium                | U                   | 92                   |
| Lutetium              | Lu                  | 71                   | Vanadium               | V                   | 23                   |
| Magnesium             | Mg                  | 12                   | Xenon                  | Xe                  | 54                   |
| Manganese             | Mn                  | 25                   | Ytterbium              | Yb                  | 70                   |
| Meitnerium            | Mt                  | 109                  | Yttrium                | Y                   | 39                   |
| Mendelevium           | Md                  | 101                  | Zinc                   | Zn                  | 30                   |
| Mercury               | Hg                  | 80                   | Zirconium              | $\operatorname{Zr}$ | 40                   |
| Molybdenum            | Mo                  | 42                   |                        |                     |                      |

<sup>\*\*</sup>The names and symbols for elements 110 through 118 have not yet been chosen