# PERIODIC TABLE OF ELEMENTS

Z — Mass
Symbol
State
Name

State at Room $T$
→ Solid
→ Liquid
→ Gas
→ Radiactive

SYNTHETIC

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1 1.0079 H Hydrogen | | | | | | | | | | | | | | | | | 2 4.0025 He Helium |
| 2 | 3 6.941 Li Lithium | 4 9.0122 Be Beryllium | | | | | | | | | | | 5 10.811 B Boron | 6 12.011 C Carbon | 7 14.007 N Nitrogen | 8 15.999 O Oxygen | 9 18.998 F Fluorine | 10 20.180 Ne Neon |
| 3 | 11 22.990 Na Sodium | 12 24.305 Mg Magnesium | | | | | | | | | | | 13 26.982 Al Aluminium | 14 28.086 Si Silicon | 15 30.974 P Phosphorus | 16 32.065 S Sulfur | 17 35.453 Cl Chlorine | 18 39.948 Ar Argon |
| 4 | 19 39.098 K Potassium | 20 40.078 Ca Calcium | 21 44.956 Sc Scandium | 22 47.867 Ti Titanium | 23 50.942 V Vanadium | 24 51.996 Cr Chromium | 25 54.938 Mn Manganese | 26 55.845 Fe Iron | 27 58.933 Co Cobalt | 28 58.693 Ni Nickel | 29 63.546 Cu Copper | 30 65.39 Zn Zinc | 31 69.723 Ga Gallium | 32 72.64 Ge Germanium | 33 74.922 As Arsenic | 34 78.96 Se Selenium | 35 79.904 Br Bromine | 36 83.8 Kr Krypton |
| 5 | 37 85.468 Rb Rubidium | 38 87.62 Sr Strontium | 39 88.906 Y Yttrium | 40 91.224 Zr Zirconium | 41 92.906 Nb Niobium | 42 95.94 Mo Molybdenum | 43 96 Tc Technetium | 44 101.07 Ru Ruthenium | 45 102.91 Rh Rhodium | 46 106.42 Pd Palladium | 47 107.87 Ag Silver | 48 112.41 Cd Cadmium | 49 114.82 In Indium | 50 118.71 Sn Tin | 51 121.76 Sb Antimony | 52 127.6 Te Tellurium | 53 126.9 I Iodine | 54 131.29 Xe Xenon |
| 6 | 55 132.91 Cs Caesium | 56 137.33 Ba Barium | 71 174.97 Lu Lutetium | 72 178.49 Hf Hafnium | 73 180.95 Ta Tantalum | 74 183.84 W Wolfram | 75 186.21 Re Rhenium | 76 190.23 Os Osmium | 77 192.22 Ir Iridium | 78 195.08 Pt Platinum | 79 196.97 Au Gold | 80 200.59 Hg Mercury | 81 204.38 Tl Thallium | 82 207.2 Pb Lead | 83 208.98 Bi Bismuth | 84 209 Po Polonium | 85 210 At Astatine | 86 222 Rn Radon |
| 7 | 87 223 Fr Francium | 88 226 Ra Radium | 103 262 Lr Lawrencium | 104 261 Rf Rutherfordium | 105 262 Db Dubnium | 106 266 Sg Seaborgium | 107 264 Bh Bohrium | 108 277 Hs Hassium | 109 268 Mt Meitnerium | 110 281 Ds Darmstadtium | 111 280 Rg Roentgenium | 112 285 Cn Copernicium | 113 284 Nh Nihonium | 114 289 Fl Flerovium | 115 288 Mc Moscovium | 116 293 Lv Livermorium | 117 292 Ts Tennessine | 118 294 Og Oganesson |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 57 138.91 La Lanthanum | 58 140.12 Ce Cerium | 59 140.91 Pr Praseodymium | 60 144.24 Nd Neodymium | 61 145 Pm Promethium | 62 150.36 Sm Samarium | 63 151.96 Eu Europium | 64 157.25 Gd Gadolinium | 65 158.93 Tb Terbium | 66 162.50 Dy Dysprosium | 67 164.93 Ho Holmium | 68 167.26 Er Erbium | 69 168.93 Tm Thulium | 70 173.04 Yb Ytterbium |
| 89 227 Ac Actinium | 90 232.04 Th Thorium | 91 231.04 Pa Protactinium | 92 238.03 U Uranium | 93 237 Np Neptunium | 94 244 Pu Plutonium | 95 243 Am Americium | 96 247 Cm Curium | 97 247 Bk Berkelium | 98 251 Cf Californium | 99 252 Es Einsteinium | 100 257 Fm Fermium | 101 258 Md Mendelevium | 102 259 No Nobelium |

- ALKALI METALS
- ALKALINE EARTH METALS
- LANTHANOIDS
- ACTINOIDS
- TRANSITION METALS
- POST-TRANSITION METALS
- METALLOIDS
- NONMETALS
- NOBLE GASES