

PERIODIC TABLE OF ELEMENTS

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18

| 1 H Hydrogen 1.008 | Atomic # Symbol Name Weight | | | | | | | | | | | | | | | | 2 He Helium 4.0026 | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|--|--|--|---------------------------------------|---|--|--|---|---|--|--|--|--|--|--|---|--|------------|--|-----------|--|---------------|-----------------------|---------------------------|--|-------------------|------------------------|------------|-----------------|-------------|--|--|-----------------------|--|--|--|---------------------------------|-----------------------------------|-------------------------------------|-----------------------------------|-------------------------------------|-----------------------------------|
| 3 Li Lithium 6.94 | 4 Be Beryllium 9.0122 | <table border="1"> <tr> <th colspan="6">Metals</th> <th colspan="2">Metalloids</th> <th colspan="2">Nonmetals</th> </tr> <tr> <td rowspan="2">Alkali metals</td> <td>Alkaline earth metals</td> <td colspan="2">Lanthanoids (Lanthanides)</td> <td rowspan="2">Transition metals</td> <td rowspan="2">Post-transition metals</td> <td rowspan="2">Metalloids</td> <td rowspan="2">Other nonmetals</td> <td rowspan="2">Noble gases</td> <td colspan="2"></td> </tr> <tr> <td colspan="2">Actinoids (Actinides)</td> <td colspan="2"></td> </tr> </table> | | | | | | | | | | Metals | | | | | | Metalloids | | Nonmetals | | Alkali metals | Alkaline earth metals | Lanthanoids (Lanthanides) | | Transition metals | Post-transition metals | Metalloids | Other nonmetals | Noble gases | | | Actinoids (Actinides) | | | | 5 B Boron 10.81 | 6 C Carbon 12.011 | 7 N Nitrogen 14.007 | 8 O Oxygen 15.999 | 9 F Fluorine 18.998 | 10 Ne Neon 20.180 |
| Metals | | | | | | Metalloids | | Nonmetals | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alkali metals | Alkaline earth metals | Lanthanoids (Lanthanides) | | Transition metals | Post-transition metals | Metalloids | Other nonmetals | Noble gases | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Actinoids (Actinides) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 Na Sodium 22.990 | 12 Mg Magnesium 24.305 | | | | | | | | | | | 13 Al Aluminium 26.982 | 14 Si Silicon 28.085 | 15 P Phosphorus 30.974 | 16 S Sulfur 32.06 | 17 Cl Chlorine 35.45 | 18 Ar Argon 39.948 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 K Potassium 39.098 | 20 Ca Calcium 40.078 | 21 Sc Scandium 44.956 | 22 Ti Titanium 47.867 | 23 V Vanadium 50.942 | 24 Cr Chromium 51.996 | 25 Mn Manganese 54.938 | 26 Fe Iron 55.845 | 27 Co Cobalt 58.933 | 28 Ni Nickel 58.693 | 29 Cu Copper 63.546 | 30 Zn Zinc 65.38 | 31 Ga Gallium 69.723 | 32 Ge Germanium 72.630 | 33 As Arsenic 74.922 | 34 Se Selenium 78.971 | 35 Br Bromine 79.904 | 36 Kr Krypton 83.798 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 37 Rb Rubidium 85.468 | 38 Sr Strontium 87.62 | 39 Y Yttrium 88.906 | 40 Zr Zirconium 91.224 | 41 Nb Niobium 92.906 | 42 Mo Molybdenum 95.95 | 43 Tc Technetium (98) | 44 Ru Ruthenium 101.07 | 45 Rh Rhodium 102.91 | 46 Pd Palladium 106.42 | 47 Ag Silver 107.87 | 48 Cd Cadmium 112.41 | 49 In Indium 114.82 | 50 Sn Tin 118.71 | 51 Sb Antimony 121.76 | 52 Te Tellurium 127.60 | 53 I Iodine 126.90 | 54 Xe Xenon 131.29 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 55 Cs Caesium 132.91 | 56 Ba Barium 137.33 | 57-71 | 72 Hf Hafnium 178.49 | 73 Ta Tantalum 180.95 | 74 W Tungsten 183.84 | 75 Re Rhenium 186.21 | 76 Os Osmium 190.23 | 77 Ir Iridium 192.22 | 78 Pt Platinum 195.08 | 79 Au Gold 196.97 | 80 Hg Mercury 200.59 | 81 Tl Thallium 204.38 | 82 Pb Lead 207.2 | 83 Bi Bismuth 208.98 | 84 Po Polonium (209) | 85 At Astatine (210) | 86 Rn Radon (222) | | | | | | | | | | | | | | | | | | | | | | | | | |
| 87 Fr Francium (223) | 88 Ra Radium (226) | 89-103 | 104 Rf Rutherfordium (261) | 105 Db Dubnium (268) | 106 Sg Seaborgium (269) | 107 Bh Bohrium (270) | 108 Hs Hassium (277) | 109 Mt Meitnerium (278) | 110 Ds Darmstadtium (281) | 111 Rg Roentgenium (282) | 112 Cn Copernicium (285) | 113 Nh Nihonium (286) | 114 Fl Flerovium (289) | 115 Mc Moscovium (290) | 116 Lv Livermorium (293) | 117 Ts Tennessine (294) | 118 Og Oganesson (294) | | | | | | | | | | | | | | | | | | | | | | | | | |

For elements with no stable isotopes, the mass number of the isotope with the longest half-life is in parentheses.

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|---|--|--------------------------------------|---|--|--|---------------------------------------|---------------------------------------|---|---------------------------------------|---|---|--------------------------------------|--|--|---|
| 6 | 57 La Lanthanum 138.91 | 58 Ce Cerium 140.12 | 59 Pr Praseodymium 140.91 | 60 Nd Neodymium 144.24 | 61 Pm Promethium (145) | 62 Sm Samarium 150.36 | 63 Eu Europium 151.96 | 64 Gd Gadolinium 157.25 | 65 Tb Terbium 158.93 | 66 Dy Dysprosium 162.50 | 67 Ho Holmium 164.93 | 68 Er Erbium 167.26 | 69 Tm Thulium 168.93 | 70 Yb Ytterbium 173.05 | 71 Lu Lutetium 174.97 |
| 7 | 89 Ac Actinium (227) | 90 Th Thorium 232.04 | 91 Pa Protactinium 231.04 | 92 U Uranium 238.03 | 93 Np Neptunium (237) | 94 Pu Plutonium (244) | 95 Am Americium (243) | 96 Cm Curium (247) | 97 Bk Berkelium (247) | 98 Cf Californium (251) | 99 Es Einsteinium (252) | 100 Fm Fermium (257) | 101 Md Mendelevium (258) | 102 No Nobelium (259) | 103 Lr Lawrencium (266) |