



PERIODIC TABLE OF THE ELEMENTS

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|-------------|---------------------------------------|--|--|---------------------------------------|--|--|---|--|---------------------------------------|---|---|--|--|---------------------------------------|--|--|---|--------------------------------------|-----------------------------------|----------|--|----------|--------------------------|---|--------------------------------------|---|------------------------------------|---------------------------------------|------------------------------------|--------------------------------------|------------------------------------|--------------------------------------|-----------------------------------|
| | GROUP 1A | | | | | | | | | | | | | | | | | | | | | | | | | | GROUP 0 | | | | | | |
| PERIOD I | 1 H Hydrogen 1,00794 | GROUP 2A | | | | | | | | | | | | | | | | | | | | | | | | 2 He Helium 4,0026 | | | | | | | |
| PERIOD II | 3 Li Lithium 6,941 | 4 Be Beryllium 9,0122 | Alkali metals Alkaline earth metals | | | | | | | | | | Lanthanide series (rare earth metals) Actinide series (rare earth metals) | | | | | Transition metals Other metals | | | | | Nonmetals Noble gases | | | | | 5 B Boron 10,811 | 6 C Carbon 12,011 | 7 N Nitrogen 14,0067 | 8 O Oxygen 15,9994 | 9 F Fluorine 18,9984 | 10 Ne Neon 20,183 |
| PERIOD III | 11 Na Sodium 22,9898 | 12 Mg Magnesium 24,305 | GROUP 3B | | | GROUP 4B | | GROUP 5B | | GROUP 6B | | GROUP 7B | | GROUP 8 | | GROUP 8 | | GROUP 8 | | GROUP 1B | | GROUP 2B | | 13 Al Aluminium 26,9815 | 14 Si Silicon 28,086 | 15 P Phosphorus 30,9738 | 16 S Sulfur 32,066 | 17 Cl Chlorine 35,453 | 18 Ar Argon 39,948 | | | | |
| PERIOD IV | 19 K Potassium 39,098 | 20 Ca Calcium 40,08 | 21 Sc Scandium 44,956 | 22 Ti Titanium 47,87 | 23 V Vanadium 50,942 | 24 Cr Chromium 51,996 | 25 Mn Manganese 54,9380 | 26 Fe Iron 55,845 | 27 Co Cobalt 58,9332 | 28 Ni Nickel 58,69 | 29 Cu Copper 63,546 | 30 Zn Zinc 65,39 | 31 Ga Gallium 69,72 | 32 Ge Germanium 72,61 | 33 As Arsenic 74,9216 | 34 Se Selenium 78,96 | 35 Br Bromine 79,904 | 36 Kr Krypton 83,80 | | | | | | | | | | | | | | | |
| PERIOD V | 37 Rb Rubidium 85,47 | 38 Sr Strontium 87,62 | 39 Y Yttrium 88,906 | 40 Zr Zirconium 91,22 | 41 Nb Niobium 92,906 | 42 Mo Molybdenum 95,94 | 43 Tc Technetium (98) | 44 Ru Ruthenium 101,07 | 45 Rh Rhodium 102,905 | 46 Pd Palladium 106,4 | 47 Ag Silver 107,868 | 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 126,9045 | 54 Xe Xenon 131,29 | | | | | | | | | | | | | | | |
| PERIOD VI | 55 Cs Cesium 132,905 | 56 Ba Barium 137,33 | 57-71 Lanthanides | | 72 Hf Hafnium 178,49 | 73 Ta Tantalum 180,948 | 74 W Tungsten 183,84 | 75 Re Rhenium 186,2 | 76 Os Osmium 190,2 | 77 Ir Iridium 192,2 | 78 Pt Platinum 195,08 | 79 Au Gold 196,967 | 80 Hg Mercury 200,59 | 81 Tl Thallium 204,38 | 82 Pb Lead 207,2 | 83 Bi Bismuth 208,98 | 84 Po Polonium (210) | 85 At Astatine (210) | 86 Rn Radon (222) | | | | | | | | | | | | | | |
| PERIOD VII | 87 Fr Francium (223) | 88 Ra Radium (226) | 89-103 Actinides | | 104 Rf Rutherfordium (261) | 105 Db Dubnium (262) | 106 Sg Seaborgium (266) | 107 Bh Bohrium (264) | 108 Hs Hassium (265) | 109 Mt Meitnerium (268) | 110 Ds Darmstadtium (272) | 111 Rg Roentgenium (272) | 112 Cn Copernicium (277) | | | | | | | | | | | | | | | | | | | | |
| LANTHANIDES | | | 57 La Lanthanum 138,91 | 58 Ce Cerium 140,12 | 59 Pr Praseodymium 140,908 | 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 158,925 | 66 Dy Dysprosium 162,50 | 67 Ho Holmium 164,930 | 68 Er Erbium 167,26 | 69 Tm Thulium 168,934 | 70 Yb Ytterbium 173,04 | 71 Lu Lutetium 174,97 | | | | | | | | | | | | | | | | |
| ACTINIDES | | | 89 Ac Actinium (227) | 90 Th Thorium 232,038 | 91 Pa Protactinium 231,036 | 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 (268) | 102 No Nobelium (269) | 103 Lr Lawrencium (262) | | | | | | | | | | | | | | | | |

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