

Periodic Table of the Elements

Period	Group 1	Group 2	Group 3	Group 4	Group 5	Group 6	Group 7	Group 8	Group 9
1	1 H Hydrogen 1.007 94 1s ¹								
2	3 Li Lithium 6.941 [He]2s ¹	4 Be Beryllium 9.012 182 [He]2s ²							
3	11 Na Sodium 22.989 770 [Ne]3s ¹	12 Mg Magnesium 24.3050 [Ne]3s ²							
4	19 K Potassium 39.0983 [Ar]4s ¹	20 Ca Calcium 40.078 [Ar]4s ²	21 Sc Scandium 44.955 910 [Ar]3d ¹ 4s ²	22 Ti Titanium 47.867 [Ar]3d ² 4s ²	23 V Vanadium 50.9415 [Ar]3d ³ 4s ²	24 Cr Chromium 51.9961 [Ar]3d ⁵ 4s ¹	25 Mn Manganese 54.938 049 [Ar]3d ⁵ 4s ²	26 Fe Iron 55.845 [Ar]3d ⁶ 4s ²	27 Co Cobalt 58.933 200 [Ar]3d ⁷ 4s ²
5	37 Rb Rubidium 85.4678 [Kr]5s ¹	38 Sr Strontium 87.62 [Kr]5s ²	39 Y Yttrium 88.905 85 [Kr]4d ¹ 5s ²	40 Zr Zirconium 91.224 [Kr]4d ² 5s ²	41 Nb Niobium 92.906 38 [Kr]4d ⁴ 5s ¹	42 Mo Molybdenum 95.94 [Kr]4d ⁵ 5s ¹	43 Tc Technetium (98) [Kr]4d ⁵ 5s ¹	44 Ru Ruthenium 101.07 [Kr]4d ⁷ 5s ¹	45 Rh Rhodium 102.905 50 [Kr]4d ⁸ 5s ¹
6	55 Cs Cesium 132.905 43 [Xe]6s ¹	56 Ba Barium 137.327 [Xe]6s ²	57 La Lanthanum 138.9055 [Xe]5d ¹ 6s ²	72 Hf Hafnium 178.49 [Xe]4f ¹⁴ 5d ² 6s ²	73 Ta Tantalum 180.9479 [Xe]4f ¹⁴ 5d ³ 6s ²	74 W Tungsten 183.84 [Xe]4f ¹⁴ 5d ⁴ 6s ²	75 Re Rhenium 186.207 [Xe]4f ¹⁴ 5d ⁵ 6s ²	76 Os Osmium 190.23 [Xe]4f ¹⁴ 5d ⁶ 6s ²	77 Ir Iridium 192.217 [Xe]4f ¹⁴ 5d ⁷ 6s ²
7	87 Fr Francium (223) [Rn]7s ¹	88 Ra Radium (226) [Rn]7s ²	89 Ac Actinium (227) [Rn]6d ¹ 7s ²	104 Rf Rutherfordium (261) [Rn]5f ¹⁴ 6d ² 7s ²	105 Db Dubnium (262) [Rn]5f ¹⁴ 6d ³ 7s ²	106 Sg Seaborgium (266) [Rn]5f ¹⁴ 6d ⁴ 7s ²	107 Bh Bohrium (264) [Rn]5f ¹⁴ 6d ⁵ 7s ²	108 Hs Hassium (277) [Rn]5f ¹⁴ 6d ⁶ 7s ²	109 Mt Meitnerium (268) [Rn]5f ¹⁴ 6d ⁷ 7s ²

* The systematic names and symbols for elements greater than 111 will be used until the approval of trivial names by IUPAC.

Key:

Atomic number	6
Symbol	C
Name	Carbon
Average atomic mass	12.0107
Electron configuration	[He]2s ² 2p ²

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58 Ce Cerium 140.116 [Xe]4f ¹ 5d ¹ 6s ²	59 Pr Praseodymium 140.907 65 [Xe]4f ³ 6s ²	60 Nd Neodymium 144.24 [Xe]4f ⁴ 6s ²	61 Pm Promethium (145) [Xe]4f ⁵ 6s ²	62 Sm Samarium 150.36 [Xe]4f ⁶ 6s ²
90 Th Thorium 232.0381 [Rn]6d ² 7s ²	91 Pa Protactinium 231.035 88 [Rn]5f ² 6d ¹ 7s ²	92 U Uranium 238.028 91 [Rn]5f ³ 6d ¹ 7s ²	93 Np Neptunium (237) [Rn]5f ⁴ 6d ¹ 7s ²	94 Pu Plutonium (244) [Rn]5f ⁶ 7s ²