



Periodic table of elements

s block		d block										p block					
1 IA												18 VIII A					
1 1 H Hydrogen 1s ¹	2 4 Be Beryllium [He] 2s ²											5 13 B Boron [He] 2s ² 2p ¹	6 14 C Carbon [He] 2s ² 2p ²	7 15 N Nitrogen [He] 2s ² 2p ³	8 16 O Oxygen [He] 2s ² 2p ⁴	9 17 F Fluorine [He] 2s ² 2p ⁵	10 18 Ne Neon [He] 2s ² 2p ⁶
3 11 Na Sodium [Ne] 3s ¹	4 12 Mg Magnesium [Ne] 3s ²											13 31 Al Aluminum [Ne] 3s ² 3p ¹	14 32 Si Silicon [Ne] 3s ² 3p ²	15 33 P Phosphorus [Ne] 3s ² 3p ³	16 34 S Sulfur [Ne] 3s ² 3p ⁴	17 35 Cl Chlorine [Ne] 3s ² 3p ⁵	18 36 Ar Argon [Ne] 3s ² 3p ⁶
4 19 K Potassium [Ar] 4s ¹	20 20 Ca Calcium [Ar] 4s ²	21 39 Sc Scandium [Ar] 4s ² 3d ¹	22 40 Ti Titanium [Ar] 4s ² 3d ²	23 41 V Vanadium [Ar] 4s ² 3d ³	24 42 Cr Chromium [Ar] 4s ¹ 3d ⁵	25 43 Mn Manganese [Ar] 4s ² 3d ⁵	26 44 Fe Iron [Ar] 4s ² 3d ⁶	27 45 Co Cobalt [Ar] 4s ² 3d ⁷	28 46 Ni Nickel [Ar] 4s ² 3d ⁸	29 47 Cu Copper [Ar] 4s ¹ 3d ¹⁰	30 48 Zn Zinc [Ar] 4s ² 3d ¹⁰	31 49 Ga Gallium [Ar] 4s ² 3d ¹⁰ 4p ¹	32 50 Ge Germanium [Ar] 4s ² 3d ¹⁰ 4p ²	33 51 As Arsenic [Ar] 4s ² 3d ¹⁰ 4p ³	34 52 Se Selenium [Ar] 4s ² 3d ¹⁰ 4p ⁴	35 53 Br Bromine [Ar] 4s ² 3d ¹⁰ 4p ⁵	36 54 Kr Krypton [Ar] 4s ² 3d ¹⁰ 4p ⁶
5 37 Rb Rubidium [Kr] 5s ¹	38 38 Sr Strontium [Kr] 5s ²	39 57-71 Y Yttrium [Kr] 5s ² 4d ¹	40 72 Zr Zirconium [Kr] 5s ² 4d ²	41 73 Nb Niobium [Kr] 5s ¹ 4d ⁴	42 74 Mo Molybdenum [Kr] 5s ¹ 4d ⁵	43 75 Tc Technetium [Kr] 5s ² 4d ⁵	44 76 Ru Ruthenium [Kr] 5s ¹ 4d ⁷	45 77 Rh Rhodium [Kr] 5s ¹ 4d ⁸	46 78 Pd Palladium [Kr] 4d ¹⁰	47 79 Ag Silver [Kr] 5s ¹ 4d ¹⁰	48 80 Cd Cadmium [Kr] 5s ² 4d ¹⁰	49 81 In Indium [Kr] 5s ² 4d ¹⁰ 5p ¹	50 82 Sn Tin [Kr] 5s ² 4d ¹⁰ 5p ²	51 83 Sb Antimony [Kr] 5s ² 4d ¹⁰ 5p ³	52 84 Te Tellurium [Kr] 5s ² 4d ¹⁰ 5p ⁴	53 85 I Iodine [Kr] 5s ² 4d ¹⁰ 5p ⁵	54 86 Xe Xenon [Kr] 5s ² 4d ¹⁰ 5p ⁶
6 55 Cs Cesium [Xe] 6s ¹	56 88 Ba Barium [Xe] 6s ²	57-71 89-103 La-Lu Lanthanides	72 104 Hf Hafnium [Xe] 6s ² 4f ¹⁴ 5d ²	73 105 Ta Tantalum [Xe] 6s ² 4f ¹⁴ 5d ³	74 106 W Tungsten [Xe] 6s ² 4f ¹⁴ 5d ⁴	75 107 Re Rhenium [Xe] 6s ² 4f ¹⁴ 5d ⁵	76 108 Os Osmium [Xe] 6s ² 4f ¹⁴ 5d ⁶	77 109 Ir Iridium [Xe] 6s ² 4f ¹⁴ 5d ⁷	78 110 Pt Platinum [Xe] 6s ¹ 4f ¹⁴ 5d ⁹	79 111 Au Gold [Xe] 6s ¹ 4f ¹⁴ 5d ¹⁰	80 112 Hg Mercury [Xe] 6s ² 4f ¹⁴ 5d ¹⁰	81 113 Tl Thallium [Xe] 6s ² 4f ¹⁴ 5d ¹⁰ 6p ¹	82 114 Pb Lead [Xe] 6s ² 4f ¹⁴ 5d ¹⁰ 6p ²	83 115 Bi Bismuth [Xe] 6s ² 4f ¹⁴ 5d ¹⁰ 6p ³	84 116 Po Polonium [Xe] 6s ² 4f ¹⁴ 5d ¹⁰ 6p ⁴	85 117 At Astatine [Xe] 6s ² 4f ¹⁴ 5d ¹⁰ 6p ⁵	86 118 Rn Radon [Xe] 6s ² 4f ¹⁴ 5d ¹⁰ 6p ⁶
7 87 Fr Francium [Rn] 7s ¹	88 88 Ra Radium [Rn] 7s ²	89-103 Ac-Lr Actinides	104 104 Rf Rutherfordium [Rn] 7s ² 5f ¹⁴ 6d ²	105 105 Db Dubnium [Rn] 7s ² 5f ¹⁴ 6d ³	106 106 Sg Seaborgium [Rn] 7s ² 5f ¹⁴ 6d ⁴	107 107 Bh Bohrium [Rn] 7s ² 5f ¹⁴ 6d ⁵	108 108 Hs Hassium [Rn] 7s ² 5f ¹⁴ 6d ⁶	109 109 Mt Meitnerium [Rn] 7s ² 5f ¹⁴ 6d ⁷	110 110 Ds Darmstadtium [Rn] 7s ² 5f ¹⁴ 6d ⁸	111 111 Rg Roentgenium [Rn] 7s ² 5f ¹⁴ 6d ⁹	112 112 Cn Copernicium [Rn] 7s ² 5f ¹⁴ 6d ¹⁰	113 113 Nh Nihonium [Rn] 7s ² 5f ¹⁴ 6d ¹⁰ 7p ¹	114 114 Fl Flerovium [Rn] 7s ² 5f ¹⁴ 6d ¹⁰ 7p ²	115 115 Mc Moscovium [Rn] 7s ² 5f ¹⁴ 6d ¹⁰ 7p ³	116 116 Lv Livermorium [Rn] 7s ² 5f ¹⁴ 6d ¹⁰ 7p ⁴	117 117 Ts Tennessine [Rn] 7s ² 5f ¹⁴ 6d ¹⁰ 7p ⁵	118 118 Og Oganesson [Rn] 7s ² 5f ¹⁴ 6d ¹⁰ 7p ⁶

Atomic number Atomic mass
Oxidation states

Symbol
Name

Electron configuration

- Alkali metals
- Alkali earth metals
- Transition metals
- Probable transition metal
- P-block metals
- Probable P-block metal
- Lanthanoid. Rare earth
- Actinoid
- Metalloids
- Non metal
- Noble gas

Solid **Liquid** **Gas** **Syntetic**

Document generated by:



d	f block													
---	---------	--	--	--	--	--	--	--	--	--	--	--	--	--

6 57 La Lanthanum [Xe] 6s ² 5d ¹	58 140,116 Ce Cerium [Xe] 6s ² 4f ¹ 5d ¹	59 140,908 Pr Praseodymium [Xe] 6s ² 4f ³	60 144,242 Nd Neodymium [Xe] 6s ² 4f ⁴	61 145 Pm Promethium [Xe] 6s ² 4f ⁵	62 150,36 Sm Samarium [Xe] 6s ² 4f ⁶	63 151,964 Eu Europium [Xe] 6s ² 4f ⁷	64 157,25 Gd Gadolinium [Xe] 6s ² 4f ⁷ 5d ¹	65 158,925 Tb Terbium [Xe] 6s ² 4f ⁹	66 162,5 Dy Dysprosium [Xe] 6s ² 4f ¹⁰	67 164,93 Ho Holmium [Xe] 6s ² 4f ¹¹	68 167,259 Er Erbium [Xe] 6s ² 4f ¹²	69 168,934 Tm Thulium [Xe] 6s ² 4f ¹³	70 173,054 Yb Ytterbium [Xe] 6s ² 4f ¹⁴	71 174,967 Lu Lutetium [Xe] 6s ² 4f ¹⁴ 5d ¹
7 89 Ac Actinium [Rn] 7s ² 6d ¹	90 232,038 Th Thorium [Rn] 7s ² 6d ²	91 231,036 Pa Protactinium [Rn] 7s ² 5f ² 6d ¹	92 238,029 U Uranium [Rn] 7s ² 5f ³ 6d ¹	93 237 Np Neptunium [Rn] 7s ² 5f ⁴ 6d ¹	94 244 Pu Plutonium [Rn] 7s ² 5f ⁶	95 243 Am Americium [Rn] 7s ² 5f ⁷	96 247 Cm Curium [Rn] 7s ² 5f ⁷ 6d ¹	97 247 Bk Berkelium [Rn] 7s ² 5f ⁹	98 251 Cf Californium [Rn] 7s ² 5f ¹⁰	99 252 Es Einsteinium [Rn] 7s ² 5f ¹¹	100 257 Fm Fermium [Rn] 7s ² 5f ¹²	101 258 Md Mendelevium [Rn] 7s ² 5f ¹³	102 259 No Nobelium [Rn] 7s ² 5f ¹⁴	103 262 Lr Lawrencium [Rn] 7s ² 5f ¹⁴ 7p ¹