











THE PERIODIC TABLE OF THE ELEMENTS

All 118 elements · masses and electron configurations

-  Alkali metal
-  Alkaline earth metal
-  Transition metal
-  Post-transition metal
-  Metalloid
-  Nonmetal
-  Halogen
-  Noble gas
-  Lanthanide
-  Actinide

1 H Hydrogen 1.008 1s ¹																	2 He Helium 4.0026 1s ²
3 Li Lithium 6.94 [He] 2s ¹	4 Be Beryllium 9.0122 [He] 2s ²											5 B Boron 10.81 [He] 2s ² 2p ¹	6 C Carbon 12.011 [He] 2s ² 2p ²	7 N Nitrogen 14.007 [He] 2s ² 2p ³	8 O Oxygen 15.999 [He] 2s ² 2p ⁴	9 F Fluorine 18.998 [He] 2s ² 2p ⁵	10 Ne Neon 20.18 [He] 2s ² 2p ⁶
11 Na Sodium 22.99 [Ne] 3s ¹	12 Mg Magnesium 24.305 [Ne] 3s ²											13 Al Aluminum 26.982 [Ne] 3s ² 3p ¹	14 Si Silicon 28.085 [Ne] 3s ² 3p ²	15 P Phosphorus 30.974 [Ne] 3s ² 3p ³	16 S Sulfur 32.06 [Ne] 3s ² 3p ⁴	17 Cl Chlorine 35.45 [Ne] 3s ² 3p ⁵	18 Ar Argon 39.95 [Ne] 3s ² 3p ⁶
19 K Potassium 39.098 [Ar] 4s ¹	20 Ca Calcium 40.078 [Ar] 4s ²	21 Sc Scandium 44.956 [Ar] 3d ¹ 4s ²	22 Ti Titanium 47.867 [Ar] 3d ² 4s ²	23 V Vanadium 50.942 [Ar] 3d ³ 4s ²	24 Cr Chromium 51.996 [Ar] 3d ⁵ 4s ¹	25 Mn Manganese 54.938 [Ar] 3d ⁵ 4s ²	26 Fe Iron 55.845 [Ar] 3d ⁶ 4s ²	27 Co Cobalt 58.933 [Ar] 3d ⁷ 4s ²	28 Ni Nickel 58.693 [Ar] 3d ⁸ 4s ²	29 Cu Copper 63.546 [Ar] 3d ¹⁰ 4s ¹	30 Zn Zinc 65.38 [Ar] 3d ¹⁰ 4s ²	31 Ga Gallium 69.723 [Ar] 3d ¹⁰ 4s ² 4p ¹	32 Ge Germanium 72.63 [Ar] 3d ¹⁰ 4s ² 4p ²	33 As Arsenic 74.922 [Ar] 3d ¹⁰ 4s ² 4p ³	34 Se Selenium 78.971 [Ar] 3d ¹⁰ 4s ² 4p ⁴	35 Br Bromine 79.904 [Ar] 3d ¹⁰ 4s ² 4p ⁵	36 Kr Krypton 83.798 [Ar] 3d ¹⁰ 4s ² 4p ⁶
37 Rb Rubidium 85.468 [Kr] 5s ¹	38 Sr Strontium 87.62 [Kr] 5s ²	39 Y Yttrium 88.906 [Kr] 4d ¹ 5s ²	40 Zr Zirconium 91.224 [Kr] 4d ² 5s ²	41 Nb Niobium 92.906 [Kr] 4d ⁴ 5s ¹	42 Mo Molybdenum 95.95 [Kr] 4d ⁵ 5s ¹	43 Tc Technetium [98] [Kr] 4d ⁵ 5s ²	44 Ru Ruthenium 101.07 [Kr] 4d ⁷ 5s ¹	45 Rh Rhodium 102.91 [Kr] 4d ⁸ 5s ¹	46 Pd Palladium 106.42 [Kr] 4d ¹⁰	47 Ag Silver 107.87 [Kr] 4d ¹⁰ 5s ¹	48 Cd Cadmium 112.41 [Kr] 4d ¹⁰ 5s ²	49 In Indium 114.82 [Kr] 4d ¹⁰ 5s ² 5p ¹	50 Sn Tin 118.71 [Kr] 4d ¹⁰ 5s ² 5p ²	51 Sb Antimony 121.76 [Kr] 4d ¹⁰ 5s ² 5p ³	52 Te Tellurium 127.6 [Kr] 4d ¹⁰ 5s ² 5p ⁴	53 I Iodine 126.9 [Kr] 4d ¹⁰ 5s ² 5p ⁵	54 Xe Xenon 131.29 [Kr] 4d ¹⁰ 5s ² 5p ⁶
55 Cs Cesium 132.91 [Xe] 6s ¹	56 Ba Barium 137.33 [Xe] 6s ²	57–71	72 Hf Hafnium 178.49 [Xe] 4f ¹⁴ 5d ² 6s ²	73 Ta Tantalum 180.95 [Xe] 4f ¹⁴ 5d ³ 6s ²	74 W Tungsten 183.84 [Xe] 4f ¹⁴ 5d ⁴ 6s ²	75 Re Rhenium 186.21 [Xe] 4f ¹⁴ 5d ⁵ 6s ²	76 Os Osmium 190.23 [Xe] 4f ¹⁴ 5d ⁶ 6s ²	77 Ir Iridium 192.22 [Xe] 4f ¹⁴ 5d ⁷ 6s ²	78 Pt Platinum 195.08 [Xe] 4f ¹⁴ 5d ⁹ 6s ¹	79 Au Gold 196.97 [Xe] 4f ¹⁴ 5d ¹⁰ 6s ¹	80 Hg Mercury 200.59 [Xe] 4f ¹⁴ 5d ¹⁰ 6s ²	81 Tl Thallium 204.38 [Xe] 4f ¹⁴ 5d ¹⁰ 6s ² 6p ¹	82 Pb Lead 207.2 [Xe] 4f ¹⁴ 5d ¹⁰ 6s ² 6p ²	83 Bi Bismuth 208.98 [Xe] 4f ¹⁴ 5d ¹⁰ 6s ² 6p ³	84 Po Polonium [209] [Xe] 4f ¹⁴ 5d ¹⁰ 6s ² 6p ⁴	85 At Astatine [210] [Xe] 4f ¹⁴ 5d ¹⁰ 6s ² 6p ⁵	86 Rn Radon [222] [Xe] 4f ¹⁴ 5d ¹⁰ 6s ² 6p ⁶
87 Fr Francium [223] [Rn] 7s ¹	88 Ra Radium [226] [Rn] 7s ²	89–103	104 Rf Rutherfordium [267] [Rn] 5f ¹⁴ 6d ² 7s ²	105 Db Dubnium [268] [Rn] 5f ¹⁴ 6d ³ 7s ²	106 Sg Seaborgium [269] [Rn] 5f ¹⁴ 6d ⁴ 7s ²	107 Bh Bohrium [270] [Rn] 5f ¹⁴ 6d ⁵ 7s ²	108 Hs Hassium [269] [Rn] 5f ¹⁴ 6d ⁶ 7s ²	109 Mt Meitnerium [278] [Rn] 5f ¹⁴ 6d ⁷ 7s ²	110 Ds Darmstadtium [281] [Rn] 5f ¹⁴ 6d ⁸ 7s ²	111 Rg Roentgenium [282] [Rn] 5f ¹⁴ 6d ⁹ 7s ²	112 Cn Copernicium [285] [Rn] 5f ¹⁴ 6d ¹⁰ 7s ²	113 Nh Nihonium [286] [Rn] 5f ¹⁴ 6d ¹⁰ 7s ² 7p ¹	114 Fl Flerovium [289] [Rn] 5f ¹⁴ 6d ¹⁰ 7s ² 7p ²	115 Mc Moscovium [290] [Rn] 5f ¹⁴ 6d ¹⁰ 7s ² 7p ³	116 Lv Livermorium [293] [Rn] 5f ¹⁴ 6d ¹⁰ 7s ² 7p ⁴	117 Ts Tennessine [294] [Rn] 5f ¹⁴ 6d ¹⁰ 7s ² 7p ⁵	118 Og Oganesson [294] [Rn] 5f ¹⁴ 6d ¹⁰ 7s ² 7p ⁶
Lanthanides 57–71			57 La Lanthanum 138.91 [Xe] 5d ¹ 6s ²	58 Ce Cerium 140.12 [Xe] 4f ¹ 5d ¹ 6s ²	59 Pr Praseodymium 140.91 [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	63 Eu Europium 151.96 [Xe] 4f ⁷ 6s ²	64 Gd Gadolinium 157.25 [Xe] 4f ⁷ 5d ¹ 6s ²	65 Tb Terbium 158.93 [Xe] 4f ⁹ 6s ²	66 Dy Dysprosium 162.5 [Xe] 4f ¹⁰ 6s ²	67 Ho Holmium 164.93 [Xe] 4f ¹¹ 6s ²	68 Er Erbium 167.26 [Xe] 4f ¹² 6s ²	69 Tm Thulium 168.93 [Xe] 4f ¹³ 6s ²	70 Yb Ytterbium 173.05 [Xe] 4f ¹⁴ 6s ²	71 Lu Lutetium 174.97 [Xe] 4f ¹⁴ 5d ¹ 6s ²
Actinides 89–103			89 Ac Actinium [227] [Rn] 6d ¹ 7s ²	90 Th Thorium 232.04 [Rn] 6d ² 7s ²	91 Pa Protactinium 231.04 [Rn] 5f ² 6d ¹ 7s ²	92 U Uranium 238.03 [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	95 Am Americium [243] [Rn] 5f ⁷ 7s ²	96 Cm Curium [247] [Rn] 5f ⁸ 6d ¹ 7s ²	97 Bk Berkelium [247] [Rn] 5f ⁹ 7s ²	98 Cf Californium [251] [Rn] 5f ¹⁰ 7s ²	99 Es Einsteinium [252] [Rn] 5f ¹¹ 7s ²	100 Fm Fermium [257] [Rn] 5f ¹² 7s ²	101 Md Mendelevium [258] [Rn] 5f ¹³ 7s ²	102 No Nobelium [259] [Rn] 5f ¹⁴ 7s ²	103 Lr Lawrencium [266] [Rn] 5f ¹⁴ 7s ² 7p ¹



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