

# PERIODIC TABLE OF THE ELEMENTS-LONG FORM

PER. 1  
GROUPS  
18 ELEMENTS

**Modern Periodic Law as stated by Moseley:**  
The Properties of Elements are a Periodic Functions of their Atomic Numbers.

## The Main Features

- In this table, the long periods have been extended and the short periods broken so as to accommodate the transitional elements in the long periods at their proper places.
- There are seven periods in the table. The first period is of two elements (H-He), followed by two short periods of eight elements each (Li-Ne and Na-Ar) and then three long ones of 18, 18 and 32 elements respectively (K-Kr, Rb-Xe and Cs-Rn). The seventh period is of 26 elements including the Actinides.

## GROUPS D-BLOCK ELEMENTS

1 1.008 1 H HYDROGEN	2 6.941 3 Li LITHIUM	3 9.012 4 Be BERYLLIUM	4 12.011 5 B BORON	5 14.007 6 C CARBON	6 15.999 7 N NITROGEN	7 16.006 8 O OXYGEN	8 18.998 9 F FLUORINE	9 19.998 10 Ne NEON	10 20.180 11 Na SODIUM	11 22.990 12 Mg MAGNESIUM	12 24.305 13 Al ALUMINUM	13 26.982 14 Si SILICON	14 28.086 15 P PHOSPHORUS	15 30.974 16 S SULPHUR	16 32.06 17 Cl CHLORINE	17 35.45 18 Ar ARGON	18 39.948 19 K POTASSIUM	19 40.078 20 Ca CALCIUM	20 44.956 21 Sc SCANDIUM	21 47.88 22 Ti TITANIUM	22 50.942 23 V VANADIUM	23 51.996 24 Cr CHROMIUM	24 54.938 25 Mn MANGANESE	25 55.847 26 Fe IRON	26 58.933 27 Co COBALT	27 58.933 28 Ni NICKEL	28 63.546 29 Cu COPPER	29 65.39 30 Zn ZINC	30 69.723 31 Ga GALLIUM	31 72.63 32 Ge GERMANIUM	32 74.922 33 As ARSENIC	33 78.96 34 Se SELENIUM	34 79.904 35 Br BROMINE	35 83.8 36 Kr KRYPTON	36 85.468 37 Rb RUBIDIUM	37 87.62 38 Sr STRONTIUM	38 88.906 39 Y YTTRIUM	39 91.224 40 Zr ZIRCONIUM	40 92.906 41 Nb NIOBIUM	41 95.94 42 Mo MOLYBDENUM	42 97.907 43 Tc TECHNETIUM	43 101.07 44 Ru RUTHENIUM	44 101.07 45 Rh RHODIUM	45 106.42 46 Pd PALLADIUM	46 107.868 47 Ag SILVER	47 112.411 48 Cd CADMIUM	48 114.818 49 In INDIUM	49 118.710 50 Sn TIN	50 121.757 51 Sb ANTIMONY	51 127.5 52 Te TELLURIUM	52 128.905 53 I IODINE	53 131.29 54 Xe XENON	54 132.905 55 Cs CAESIUM	55 137.327 56 Ba BARIUM	56 175.10 57-71 LANTHANIDE SERIES	57-71 72 Hf HAFNIUM	72 74.076 73 Ta TANTALUM	73 75.07 74 W TUNGSTEN	74 76.07 75 Re RHENIUM	75 78.07 76 Os OSMIUM	76 79.07 77 Ir IRIDIUM	77 80.07 78 Pt PLATINUM	78 81.07 79 Au GOLD	79 82.07 80 Hg MERCURY	80 83.904 81 Tl THALLIUM	81 85.468 82 Pb LEAD	82 87.62 83 Bi BISMUTH	83 88.906 84 Po POLONIUM	84 91.224 85 At ASTATINE	85 92.906 86 Rn RADON	86 101.07 87 Fr FRANCIUM	87 102.07 88 Ra RADIUM	88 103.07 89-103 ACTINIDE SERIES	89-103 104 Rf RUTHERFORDIUM	104 105 Db DUBNIUM	105 106 Sg SEABORGIUM	106 107 Bh BOHRIUM	107 108 Hs HASSENIUM	108 109 Mt MEITNERIUM	109 110 Ds DARMSTADTIUM	110 111 Rg ROENTGENIUM	111 112 Cn COPECNIUM	112 113 Nh NIHONIUM	113 114 Fl FLEROVIUM	114 115 Mc MOSCOWIUM	115 116 Lv LIVERMORIUM	116 117 Ts TENNESSEUM	117 118 Og OGANESSONIUM
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Alkali Metals
Alkaline Earth Metals
Transition Metals
Lanthanide Series
Actinide Series
Semi Metals
Non Metals
Noble Gases

2,560 × 1,736

## F-BLOCK ELEMENTS - LANTHANIDES AND ACTINIDES

57 138.905 58 140.12 59 140.908 60 144.24 61 144.24 62 150.36 63 150.36 64 151.96 65 157.25 66 158.93 67 162.50 68 167.26 69 168.93 70 173.04 71 174.967	89 227.033 90 223.019 91 223.019 92 223.019 93 227.033 94 227.033 95 227.033 96 227.033 97 227.033 98 227.033 99 227.033 100 227.033 101 227.033 102 227.033 103 227.033	104 261.10 105 261.10 106 261.10 107 261.10 108 261.10 109 261.10 110 261.10 111 261.10 112 261.10 113 261.10 114 261.10 115 261.10 116 261.10 117 261.10 118 261.10
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Synthetically Element	At room temperature the element is	Based upon carbon 12	MOST COMMON STRUCTURES
Predicted Bohring element	● SOLID, e.g. Calcium	Indicates most stable isotope	□ Cubic : Face Centered
	● LIQUID, e.g. Mercury	Mass of the isotope with longest half life	□ Cubic : Body Centered
	● GAS, e.g. Oxygen		□ Hexagonal
			□ Rhombohedral
			□ Diamond
			□ Monoclinic
			□ Tetragonal

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