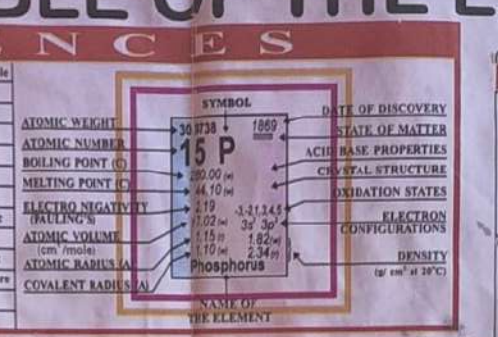
CMYK 03-09-2019

PERIODIC TABLE OF THE ELEMENTS

REFERENCES

Solid (Metal)	Cubic, Face Centred	N.A., n.a	Not Available
Solid (Non Metal),Under Normal Conditions	Cubic, Body Centred	gr	Grey
Solid, Radia Active Metal	Cubic	d	Diamond
Solid, Radio Active Metal, Synthetically Prepared.	Orthorhombic	P.H.	Pre Historic
Liquid (Non Metal), Under Normal Conditions.	Tetragonal	est.	Estimated
Liquid (Metal), Under Normal Conditions.	Hexagonal	r	Red
Gas, Under Normal Conditions	Rhombohedral	m.c	Mono Clinic
Gas (Radio Active)	Monoclinic	o.r	Orthorhombic
Strongly Acidic	Diamond	Subl.	Sublimes
Weakly Acidic	g/cm³ at S. T. P.	B.C.	Before Christ
Amphoteric (Equal Relative Strength)	Most Stable Isotope	( )	Under Pressure
Strongly Basic	Incomplete Information		
Weakly Basic	Diagonal Members		



PERIODS	IA (ns)	IIA (ns²)	IIIB (d ns²(n-1))	IVB (d ns²(n-1))	VB (d ns²(n-1))	VIB (d ns¹(n-1))	VIIB (d ns²(n-1))	VIIIB			IB (d ns¹(n-1))	IIB (d ns²(n-1))	IIIA (p ns²np¹)	IVA (p ns²np²)	VA (p ns²np³)	VIA (p ns²np⁴)	VIIA (p ns²np⁵)	VIIIA (ns²np⁶)
1	1 H 1.9079 1766 Hydrogen																	2 He 4.0026 1895 Helium
2	3 Li 6.941 1817 Lithium	4 Be 9.01218 1797 Beryllium											5 B 10.81 1808 Boron	6 C 12.011 P.H. Carbon	7 N 14.0067 1772 Nitrogen	8 O 15.9994 1774 Oxygen	9 F 18.9984 1886 Fluorine	10 Ne 20.1797 1898 Neon
3	11 Na 22.9897 1807 Sodium	12 Mg 24.3050 1755 Magnesium											13 Al 26.9815 1825 Aluminum	14 Si 28.0855 1824 Silicon	15 P 30.9738 1669 Phosphorus	16 S 32.066 P.H. Sulfur	17 Cl 35.4527 1774 Chlorine	18 Ar 39.948 1894 Argon
4	19 K 39.0983 1807 Potassium	20 Ca 40.078 1808 Calcium	21 Sc 44.9559 1879 Scandium	22 Ti 47.88 1791 Titanium	23 V 50.9415 1801 Vanadium	24 Cr 51.9961 1790 Chromium	25 Mn 54.9830 1774 Manganese	26 Fe 55.847 2500 BC. Iron	27 Co 58.9332 1735 Cobalt	28 Ni 58.69 17511 Nickel	29 Cu 63.546 Pre. Copper	30 Zn 65.39 Pre. 1500 Zinc	31 Ga 69.723 1875 Gallium	32 Ge 72.61 1886 Germanium	33 As 74.9216 1250 Arsenic	34 Se 78.96 1817 Selenium	35 Br 79.904 1826 Bromine	36 Kr 83.80 1898 Krypton
5	37 Rb 85.4678 1864 Rubidium	38 Sr 87.62 1790 Strontium	39 Y 88.9058 1794 Yttrium	40 Zr 91.224 1789 Zirconium	41 Nb 92.9063 1801 Niobium	42 Mo 95.94 1781 Molybdenum	43 Tc (98) 1937 Technetium	44 Ru 101.07 1808 Ruthenium	45 Rh 102.9055 1803 Rhodium	46 Pd 106.42 1803 Palladium	47 Ag 107.8682 300 BC. Silver	48 Cd 112.411 1817 Cadmium	49 In 114.82 1867 Indium	50 Sn 118.710 2100 BC. Tin	51 Sb 121.75 1500 BC. Antimony	52 Te 127.60 1783 Tellurium	53 I 126.9044 1811 Iodine	54 Xe 131.29 1898 Xenon
6	55 Cs 132.9054 1860 Cesium	56 Ba 137.327 1808 Barium	57 La 138.9055 1839 Lanthanum	72 Hf 178.49 1923 Hafnium	73 Ta 180.9479 1802 Tantalum	74 W 183.85 1783 Tungsten	75 Re 186.207 1925 Rhenium	76 Os 190.20 1803 Osmium	77 Ir 192.22 1803 Iridium	78 Pt 195.08 Pre 1700 Platinum	79 Au 196.9665 3000 BC. Gold	80 Hg 200.59 300 BC. Mercury	81 Tl 204.3833 1861 Thallium	82 Pb 207.20 1000 BC. Lead	83 Bi 208.9804 1546 Bismuth	84 Po (209) 1898 Polonium	85 At (210) 1940 Astatine	86 Rn (222) * 1900 Radon
7	87 Fr (223) 1939 Francium	88 Ra 226.0254 1898 Radium	89 Ac 227.028 1899 Actinium	104 Rf (261.11) 1969 Rutherfordium	105 Db (261.11) 1970 Dubnium	106 Sg (266.12) 1974 Seaborgium	107 Bh (264.12) 1976 Bohrium	108 Hs (269.13) 1984 Hassium	109 Mt (268.14) 1982 Meitnerium	110 Uun (271.15) 1987 Ununnilium	111 Uuu (272.15) 1994 Unununnium	112 Uub (277) 1996 Ununbium		114 Uuq (285) 1999 Ununquadium		116 Uuh (289) 1999 Ununhexium Withdrawn		118 Uuo (293) 1999 Ununoctium Withdrawn

	III	IV	V	VI	VII	VIII			IX	X	XI	XII	XIII	XIV	XV	XVI	XVII	XVIII
Lanthanides (6)	58 Ce 140.115 1803 Cerium	59 Pr 140.9076 1885 Praseodymium	60 Nd 144.24 1885 Neodymium	61 Pm (145) * 1945 Promethium	62 Sm 150.36 1879 Samarium	63 Eu 151.965 1901 Europium	64 Gd 157.25 1880 Gadolinium	65 Tb 158.9253 1843 Terbium	66 Dy 162.50 1886 Dysprosium	67 Ho 164.9303 1878 Holmium	68 Er 167.26 1842 Erbium	69 Tm 168.9342 1879 Thulium	70 Yb 173.04 1878 Ytterbium	71 Lu 174.967 1907 Lutetium
Actinides (7)	90 Th 232.0381 1815 Thorium	91 Pa 231.0358 1917 Protactinium	92 U 238.0289 1789 Uranium	93 Np 237.0482 1940 Neptunium	94 Pu 244.0642 1940 Plutonium	95 Am 243.06 1944 Americium	96 Cm 247.0703 1944 Curium	97 Bk 247.0703 1949 Berkelium	98 Cf 251.0796 1950 Californium	99 Es 252.083 1952 Einsteinium	100 Fm 257.0951 1952 Fermium	101 Md 258.10 1955 Mendelevium	102 No 259.1009 1958 Nobelium	103 Lr 262.11 1961 Lawrencium

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