PERIODIC TABLE OF THE ELEMENTS

																		1 H 1.00794 hydrogen
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
	1	2		<<<<<<<<<<VALENCE NUMBERS >>>>>>>>>>									3	4	3	2	1	0
	IA	IIA		<<<<<<<<<<VALENCE *ELECTRONS* >>>>>>>>>>									IIIA	IVA	VA	VIA	VIIA	VIIIA
					Gases	Liquid	Liquid	Solids		Metalloids								
1	1 H 1.00794 hydrogen			*synthetic*	at 20°C	at 20°C	at 37°C											2 He 4.003 helium
											<<<<<<METALS		NONMETALS>>>>>>>>>>>>>>>>>>>>>>					
2	3 Li 6.941 lithium	4 Be 9.0122 beryllium									<<<<<<METALS		5 B 10.81 boron	6 C 12.011 carbon	7 N 14.007 nitrogen	8 O 15.999 oxygen	9 F 18.998 fluorine	10 Ne 20.179 neon
											<<<<<<METALS		13	14	15	16	17	18
3	11 Na 22.99 sodium	12 Mg 24.3050 magnesium	IIIB	IVB	VB	VIB	VIIB	--------VIIIB---------			IB	IIB	Al 26.98 aluminum	Si 28.086 silicon	P 30.974 phosphorus	S 32.06 sulfur	Cl 35.453 chlorine	Ar 39.948 argon
			<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<Transition Metals>>>>>>>>>>>>>>>>>>>>>>>>>>>															
4	19 K 39.098 potassium	20 Ca 40.0800 calcium	21 Sc 44.956 scandium	22 Ti 47.88 titanium	23 V 50.94 vanadium	24 Cr 51.996 chromium	25 Mn 54.938 manganese	26 Fe 55.847 iron	27 Co 58.9332 cobalt	28 Ni 58.69 nickel	29 Cu 63.546 copper	30 Zn 65.39 zinc	31 Ga 69.72 gallium	32 Ge 72.59 germanium	33 As 74.922 arsenic	34 Se 78.96 selenium	35 Br 79.904 bromine	36 Kr 83.8 krypton
5	37 Rb 85.468 rubidium	38 Sr 87.6200 strontium	39 Y 88.9059 yttrium	40 Zr 91.224 zirconium	41 Nb 92.91 niobium	42 Mo 95.94 molybdenum	*43* *Tc* *[98]* technetium	44 Ru 101.07 ruthenium	45 Rh 102.96 rhodium	46 Pd 106.42 palladium	47 Ag 107.862 silver	48 Cd 112.41 cadmium	49 In 114.82 indium	50 Sn 118.71 tin	51 Sb 121.75 antimony	52 Te 127.6 tellurium	53 I 126.905 iodine	54 Xe 131.29 xenon
6	55 Cs 132.91 cesium	56 Ba 137.330 barium		72 Hf 178.49 hafnium	73 Ta 180.95 tantalum	74 W 183.85 tungsten	75 Re 186.207 rhenium	76 Os 190.2 osmium	77 Ir 192.22 iridium	78 Pt 195.08 platinum	79 Au 196.967 gold	80 Hg 200.59 mercury	81 Tl 204.383 thallium	82 Pb 207.2 lead	83 Bi 208.98 bismuth	84 Po [209] polonium	85 At [210] astatine	86 Rn [222] radon
7	87 Fr [233] francium	88 Ra 226.025 radium		*104* *Rf* *[261]* rutherfordium	*105* *Db* *[262]* unnilpentium	*106* *Sg* *[263]* unnilhexium	*107* *Bh* *[262]* unnilseptium	*108* *Hs* *[265]* unniloctium	*109* *Mt* *[266]* unnilennium	*110* *Uun* *[269]* ununnilium	*111* *Uuu* *[272]* unununium	*112* *Uub* *[277]* ununbium	*113* *Uut* *[ ]* ununtrium	*114* *Uuq* *[ ]* ununquadium				

RARE EARTH ELEMENTS

Lanthanoid Series	57 La 138.906 lanthanum	58 Ce 140.12 cerium	59 Pr 140.908 praseodymium	60 Nd 144.24 neodymium	61 Pm [145] promethium	62 Sm 150.36 samarium	63 Eu 151.96 europium	64 Gd 157.25 gadolinium	65 Tb 158.925 terbium	66 Dy 162.5 dysprosium	67 Ho 164.93 holmium	68 Er 167.26 erbium	69 Tm 168.934 thulium	70 Yb 173.04 ytterbium	71 Lu 174.967 lutetium
Actinoid Series	89 Ac 227.028 actinium	90 Th 232.038 thorium	91 Pa 231.036 protactinium	92 U 238.029 uranium	*93* *Np* *237.048* neptunium	*94* *Pu* *[244]* plutonium	*95* *Am* *[243]* americium	*96* *Cm* *[247]* curium	*97* *Bk* *[247]* berkelium	*98* *Cf* *[251]* californium	*99* *Es* *[252]* einsteinium	*100* *Fm* *[257]* fermium	*101* *Md* *[258]* mendelevium	*102* *No* *[259]* nobelium	*103* *Lr* *[260]* lawrencium

NOTE: Elements to the left of the metalloids are *metals*.
Elements to the right of the metalloids are *nonmetals*.

Note: Mass numbers shown in parentheses are for the isotope of longest half-life.

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