










## PERIODIC TABLE OF ELEMENTS

IA																		VIII A													
1 H 1.0															2 He 4.0																
IIA												3 B 10.8	4 C 12.0	5 N 14.0	6 O 16.0	7 F 19.0	8 Ne 20.2														
3 Li 6.900	4 Be 9.0											9 Al 27.0	10 Si 28.1	11 P 31.0	12 S 32.1	13 Cl 35.5	14 Ar 39.9														
11 Na 23.0	12 Mg 24.3	IIIB	IVB	VB	VIB	VIIB	VII			IB	IIB																				
19 K 39.1	20 Ca 40.1	21 Sc 45.0	22 Ti 47.9	23 V 50.9	24 Cr 52.0	25 Mn 54.9	26 Fe 55.8	27 Co 58.9	28 Ni 58.7	29 Cu 63.5	30 Zn 65.4	31 Ga 69.7	32 Ge 72.6	33 As 74.9	34 Se 79.0	35 Br 79.9	36 Kr 83.8														
37 Rb 85.5	38 Sr 87.6	39 Y 88.9	40 Zr 91.2	41 Nb 92.9	42 Mo 95.9	43 Tc (97.9)	44 Ru 101.1	45 Rh 102.9	46 Pd 106.4	47 Ag 107.9	48 Cd 112.4	49 In 114.8	50 Sn 118.7	51 Sb 121.8	52 Te 127.6	53 I 126.9	54 Xe 131.3														
55 Cs 132.9	56 Ba 137.3	57 La 138.9	72 Hf 178.5	73 Ta 180.9	74 W 183.8	75 Re 186.2	76 Os 190.2	77 Ir 192.2	78 Pt 195.1	79 Au 197.0	80 Hg 200.6	81 Tl 204.2	82 Pb 207.2	83 Bi 209.0	84 Po (209.0)	85 At (210.0)	86 Rn (222.0)														
87 Fr (223.0)	88 Ra (226.0)	89 Ac (227.0)																													
																		58 Ce 140.1	59 Pr 140.9	60 Nd 144.2	61 Pm (144.9)	62 Sm 150.4	63 Eu 152.0	64 Gd 157.2	65 Tb 158.9	66 Dy 162.5	67 Ho 164.9	68 Er 167.3	69 Tm 168.9	70 Yb 173.0	71 Lu 175.0
																		90 Th 232	91 Pa (231.0)	92 U (238.0)	93 Np (237.0)	94 Pu (244.1)	95 Am (243.1)	96 Cm (247.1)	97 Bk (247.1)	98 Cf (251.1)	99 Es (252.1)	100 Fm (257.1)	101 Md (258.1)	102 No (259.1)	103 Lr (262.1)

	Non-Metals		Alkali Metals		Alkaline Earth Metals		Metalloids
	Nobel Gases		Other Metals		Transition Metals		Lanthanides
	Antinides						

Atomic Number	Name	Symbol	Relative Atomic Mass
1	Hydrogen	H	1.00794
2	Helium	He	4.002602
3	Lithium	Li	6.941
4	Beryllium	Be	9.012182
5	Boron	B	10.811
6	Carbon	C	12.0104
7	Nitrogen	N	14.0067
8	Oxygen	O	15.9994
9	Fluorine	F	18.9984032
10	Neon	Ne	20.1797
11	Sodium (Natrium)	Na	22.98976928
12	Magnesium	Mg	24.305
13	Aluminium (Aluminum)	Al	26.9815386
14	Silicon	Si	28.0855
15	Phosphorus	P	30.973762
16	Sulfur	S	32.065
17	Chloride	Cl	35.453
18	Argon	Ar	39.948
19	Potassium(Kalium)	K	39.0983
20	Calcium	Ca	40.078
21	Scandium	Ac	44.955912
22	Titanium	Ti	47.867
23	Vanadium	V	50.9415
24	Chromium	Cr	51.9961
25	Manganese	Mn	54.938045
26	Iron (Ferrum)	Fe	55.845
27	Colbalt	Co	58.933195
28	Nickel	Ni	58.6934
29	Copper (Cuprum)	Cu	63.546
30	Zinc	Zn	65.39
31	Gallium	Ga	67.723
32	Germanium	Ge	72.64
33	Arsenic	As	74.9216
34	Selenium	Se	78.96

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35	Bromine	Br	79.904
36	Krypton	Kr	83.798
37	Rubidium	Rb	85.4678
38	Strontium	Sr	87.62
39	Yttrium	Y	88.90585
40	Zirconium	Zr	91.224
41	Niobium	Nb	92.90638
42	Molybdenum	Mo	95.94
43	Technetium	Tc	97.9072*
44	Ruthenium	Ru	101.07
45	Rhodium	Rh	102.9055
46	Palladium	Pd	106.42
47	Silver (Argentum)	Ag	107.8682
48	Cadmium	Cd	112.411
49	Iodine	I	114.818
50	Tin (Stannum)	Sn	118.71
51	Antimony (Stibium)	Sb	121.76
52	Tellurium	Te	127.6
53	Iodine	I	126.90447
54	Xenon	Xe	131.293
55	Caesium (Cesium)	Cs	132.9054519
56	Barium	Ba	137.327
57	Lanthanum	La	138.90547
58	Cerium	Ce	140.116
59	Praseodymium	Pr	140.90765

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\* Relative atomic mass of the isotope of the element with the longest known half-life.

Name	Symbol	Relative Atomic Mass
Neodymium	Nd	144.242
Promethium	Pm	144.9127
Samarium	Sm	150.36
Europium	Eu	151.964
Gadolinium	Gd	157.25
Terbium	Tb	158.92535
Dysprosium	Dy	162.500
Holmium	Ho	164.93032
Erbium	Er	167.259
Thulium	Tm	168.93421
Ytterbium	Yb	173.4
Lutetium	Lu	174.967
Hafnium	Hf	178.49
Tantalum	Ta	180.94788
Tungsten (Wolfram)	W	183.84
Rhenium	Re	186.207
Osmium	Os	190.23
Iridium	Ir	192.217
Platinum	Pt	195.084
Gold (Aurum)	Au	196.966569
Mercury (Hydrargyrum)	Hg	200.59
Thallium	Tl	204.3833
Lead (Plumbum)	Pb	207.2
Bismuth	Bi	208.9804
Polonium	Po	208.9824*
Astatine	At	209.9871*
Radon	Rn	222.0176*
Francium	Fr	223.0197*
Radium	Ra	226.0254*
Actinium	Ac	227.0277*
Thorium	Th	232.03806*
Protactinium	Pa	231.03588*
Uranium	U	238.02891
Neptunium	Np	237.0482*

Plutonium	Pu	244.0642*
Americium	Am	243.0614*
Curium	Cm	247.0704*
Berkelium	Bk	247.0703*
Californium	Cf	251.0796*
Einsteinium	Es	252.0830*
Fermium	Fm	257.0951*
Mendelevium	Md	258.0984*
Nobelium	No	259.1010*
Lawrencium	Lr	262.1097*
Rutherfordium	Rf	261.1088*
Dubnium	Db	262
Seaborgium	Sg	266
Bohrium	Bh	264
Hassium	Hs	277
Meitnerium	Mt	268
Darmstadtium	Ds	271
Roentgenium	Rg	272
Ununbium	Uub	285
Ununtrium	Uut	284
Ununquadium	Uuq	289
Ununpentium	Uup	288
Ununhexium	Uuh	292
Ununseptium	Uus	-
Ununoctium	Uuo	294