

PERIODIC TABLE OF THE ELEMENTS

Alkali Metals		Alkaline Earth Metals										Transition Metals						Chalcogens				Halogens		Noble Gases					
1A	2A	3B	4B	5B	6B	7B	8B			1B	2B	3A	4A	5A	6A	7A	8A												
1 H 1.0079												5 B 10.811	6 C 12.011	7 N 14.0067	8 O 15.9994	9 F 18.9984	10 He 4.0026												
3 Li 6.941	4 Be 9.0122											13 Al 26.9815	14 Si 28.0855	15 P 30.9738	16 S 32.066	17 Cl 35.4527	18 Ar 39.948												
11 Na 22.9898	12 Mg 24.3050											19 K 39.0983	20 Ca 40.078	21 Sc 44.9559	22 Ti 47.88	23 V 50.9415	24 Cr 51.9961	25 Mn 54.9380	26 Fe 55.847	27 Co 58.9332	28 Ni 58.693	29 Cu 63.546	30 Zn 65.39	31 Ga 69.723	32 Ge 72.61	33 As 74.9216	34 Se 78.96	35 Br 79.904	36 Kr 83.80
37 Rb 85.4678	38 Sr 87.62	39 Y 88.9059	40 Zr 91.224	41 Nb 92.9064	42 Mo 95.94	43 Tc (98)	44 Ru 101.07	45 Rh 102.9055	46 Pd 106.42	47 Ag 107.8682	48 Cd 112.411	49 In 114.82	50 Sn 118.710	51 Sb 121.757	52 Te 127.60	53 I 126.9045	54 Xe 131.29												
55 Cs 132.9054	56 Ba 137.327	57 La 138.9055	72 Hf 178.49	73 Ta 180.9479	74 W 183.85	75 Re 186.207	76 Os 190.2	77 Ir 192.22	78 Pt 195.08	79 Au 196.9665	80 Hg 200.59	81 Tl 204.3833	82 Pb 207.2	83 Bi 208.9804	84 Po (209)	85 At (210)	86 Rn (222)												
87 Fr (223)	88 Ra 226.0254	89 Ac 227.0278	104 Rf (261)	105 Db (262)	106 Sg (263)	107 Bh (262)	108 Hs (265)	109 Mt (266)	110 Uu (11/94)	111 Uu (12/94)																			

Lanthanide Series

58 Ce 140.155	59 Pr 140.9076	60 Nd 144.24	61 Pm (145)	62 Sm 150.36	63 Eu 151.965	64 Gd 157.25	65 Tb 158.9253	66 Dy 162.50	67 Ho 164.9303	68 Er 167.26	69 Tm 168.9342	70 Yb 173.04	71 Lu 174.967
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Actinide Series

90 Th 232.0381	91 Pa 231.0359	92 U 238.0289	93 Np 237.0289	94 Pu (244)	95 Am (243)	96 Cm (247)	97 Bk (247)	98 Cf (251)	99 Es (252)	100 Fm (257)	101 Md (258)	102 No (259)	103 Lr (260)
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1A												7A		8A																																				
1 1.0079	2A											3A	4A	5A	6A	1 1.0079	2 4.0026																																	
3 6.941	4 9.0122											5 10.811	6 12.011	7 14.0067	8 15.9994	9 18.9984	10 20.1797																																	
11 22.9898	12 24.3050	3B	4B	5B	6B	7B	8B		1B	2B	13 26.9815	14 28.0855	15 30.9738	16 32.066	17 35.4527	18 39.948																																		
19 39.0983	20 40.078	21 44.9559	22 47.88	23 50.9415	24 51.9961	25 54.9380	26 55.847	27 58.9332	28 58.693	29 63.546	30 65.39	31 69.723	32 72.61	33 74.9216	34 78.96	35 79.904	36 83.80																																	
37 85.4678	38 87.62	39 88.9059	40 91.224	41 92.9064	42 95.94	43 (98)	44 101.07	45 102.9055	46 106.42	47 107.8682	48 112.411	49 114.82	50 118.710	51 121.757	52 127.60	53 126.9045	54 131.29																																	
55 132.9054	56 137.327	57 138.9055	72 178.49	73 180.9479	74 183.85	75 186.207	76 190.2	77 192.22	78 195.08	79 196.9665	80 200.59	81 204.3833	82 207.2	83 208.9804	84 (209)	85 (210)	86 (222)																																	
87 (223)	88 226.0254	89 227.0278	104 (261)	105 (262)	106 (263)	107 (262)	108 (265)	109 (266)	110 (11/94)	111 (12/94)																																								
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90 232.0381	91 231.0359	92 238.0289	93 237.0289	94 (244)	95 (243)	96 (247)	97 (247)	98 (251)	99 (252)	100 (257)	101 (258)	102 (259)	103 (260)																																					

1.	H	Hydrogen	32.	Ge	Germanium	63.	Eu	Europium	94.	Pu	Plutonium
2.	He	Helium	33.	As	Arsenic	64.	Gd	Gadolinium	95.	Am	Americium
3.	Li	Lithium	34.	Se	Selenium	65.	Tb	Terbium	96.	Cm	Curium
4.	Be	Beryllium	35.	Br	Bromine	66.	Dy	Dysprosium	97.	Bk	Berkelium
5.	B	Boron	36.	Kr	Krypton	67.	Ho	Holmium	98.	Cf	Californium
6.	C	Carbon	37.	Rb	Rubidium	68.	Er	Erbium	99.	Es	Einsteinium
7.	N	Nitrogen	38.	Sr	Strontium	69.	Tm	Thulium	100.	Fm	Fermium
8.	O	Oxygen	39.	Y	Yttrium	70.	Yb	Ytterbium	101.	Md	Mendelevium
9.	F	Fluorine	40.	Zr	Zirconium	71.	Lu	Lutetium	102.	No	Nobelium
10.	Ne	Neon	41.	Nb	Niobium	72.	Hf	Hafnium	103.	Lr	Lawrencium
11.	Na	Sodium	42.	Mb	Molybdenum	73.	Ta	Tantalum	104.	Rf	Rutherfordium
12.	Mg	Magnesium	43.	Tc	Technetium	74.	W	Tungsten	105.	Db	Dubnium
13.	Al	Aluminum	44.	Ru	Ruthenium	75.	Re	Rhenium	106.	Sg	Seaborgium
14.	Si	Silicon	45.	Rh	Rhodium	76.	Os	Osmium	107.	Bh	Bohrium
15.	P	Phosphorus	46.	Pd	Palladium	77.	Ir	Iridium	108.	Hs	Hassium
16.	S	Sulfur	47.	Ag	Silver	78.	Pt	Platinum	109.	Mt	Meitnerium
17.	Cl	Chlorine	48.	Cd	Cadmium	79.	Au	Gold			
18.	Ar	Argon	49.	In	Indium	80.	Hg	Mercury			
19.	K	Potassium	50.	Sn	Tin	81.	Th	Thallium			
20.	Ca	Calcium	51.	Sb	Antimony	82.	Pb	Lead			
21.	Sc	Scandium	52.	Te	Tellurium	83.	Bi	Bismuth			
22.	Ti	Titanium	53.	I	Iodine	84.	Po	Polonium			
23.	V	Vanadium	54.	Xe	Xenon	85.	At	Astatine			
24.	Cr	Chromium	55.	Ce	Cesium	86.	Rn	Radon			
25.	Mn	Manganese	56.	Ba	Barium	87.	Fr	Francium			
26.	Fe	Iron	57.	La	Lanthanum	88.	Ra	Radium			
27.	Co	Cobalt	58.	Ce	Cerium	89.	Ac	Actinium			
28.	Ni	Nickel	59.	Pr	Praseodymium	90.	Th	Thorium			
29.	Cu	Copper	60.	Nd	Neodymium	91.	Pa	Protactinium			
30.	Zn	Zinc	61.	Pm	Promethium	92.	U	Uranium			
31.	Ga	Gallium	62.	Sm	Samarium	93.	Np	Neptunium			