

# The Periodic Table of Elements

1		2												3	4	5	6	7	0 (8)		
																				(18)	
																				4.0	
																				He	
																				helium	
																				2	
(1)	(2)	Key										(13)	(14)	(15)	(16)	(17)					
6.9	9.0	relative atomic mass										10.8	12.0	14.0	16.0	19.0					
Li	Be	atomic symbol										B	C	N	O	F					
lithium	beryllium	name										boron	carbon	nitrogen	oxygen	fluorine					
3	4	atomic (proton) number										5	6	7	8	9					
23.0	24.3	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	27.0	28.1	31.0	32.1	35.5	39.9				
Na	Mg											Al	Si	P	S	Cl	Ar				
sodium	magnesium											aluminium	silicon	phosphorus	sulfur	chlorine	argon				
11	12											13	14	15	16	17	18				
39.1	40.1	45.0	47.9	50.9	52.0	54.9	55.8	58.9	58.7	63.5	65.4	69.7	72.6	74.9	79.0	79.9	83.8				
K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr				
potassium	calcium	scandium	titanium	vanadium	chromium	manganese	iron	cobalt	nickel	copper	zinc	gallium	germanium	arsenic	selenium	bromine	krypton				
19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36				
85.5	87.6	88.9	91.2	92.9	95.9	[98]	101.1	102.9	106.4	107.9	112.4	114.8	118.7	121.8	127.6	126.9	131.3				
Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Sb	Te	I	Xe				
rubidium	strontium	yttrium	zirconium	niobium	molybdenum	technetium	ruthenium	rhodium	palladium	silver	cadmium	indium	tin	antimony	tellurium	iodine	xenon				
37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54				
132.9	137.3	138.9	178.5	180.9	183.8	186.2	190.2	192.2	195.1	197.0	200.6	204.4	207.2	209.0	[209]	[210]	[222]				
Cs	Ba	La*	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn				
caesium	barium	lanthanum	hafnium	tantalum	tungsten	rhenium	osmium	iridium	platinum	gold	mercury	thallium	lead	bismuth	polonium	astatine	radon				
55	56	57	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86				
[223]	[226]	[227]	[261]	[262]	[266]	[264]	[277]	[268]	[271]	[272]	Elements with atomic numbers 112-116 have been reported but not fully authenticated										
Fr	Ra	Ac*	Rf	Db	Sg	Bh	Hs	Mt	Ds	Rg											
francium	radium	actinium	rutherfordium	dubnium	seaborgium	bohrium	hassium	meitnerium	damstadtium	roentgenium											
87	88	89	104	105	106	107	108	109	110	111											

\* Lanthanide series

\* Actinide series

140	141	144	[147]	150	152	157	159	163	165	167	169	173	175
Ce	Pr	Nd	Pm	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu
cerium	praseodymium	neodymium	promethium	samarium	europium	gadolinium	terbium	dysprosium	holmium	erbium	thulium	ytterbium	lutetium
58	59	60	61	62	63	64	65	66	67	68	69	70	71
232	[231]	238	[237]	[242]	[243]	[247]	[245]	[251]	[254]	[253]	[256]	[254]	[257]
Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	No	Lr
thorium	protactinium	uranium	neptunium	plutonium	americium	curium	berkelium	californium	einsteinium	fermium	mendelevium	nobelium	lawrencium
90	91	92	93	94	95	96	97	98	99	100	101	102	103