

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		20.2											
Li		Be		atomic symbol										B		C		N		O		F		Ne											
lithium		beryllium		name										boron		carbon		nitrogen		oxygen		fluorine		neon											
3		4		atomic (proton) number										5		6		7		8		9		10											
23.0		24.3												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		darmstadtium		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