

# The Periodic Table of the Elements

Key																								0											
1		2																3	4	5	6	7	0												
(1)		(2)																(13)	(14)	(15)	(16)	(17)	(18)												
6.9	<b>Li</b>	9.0	<b>Be</b>															10.8	<b>B</b>	12.0	<b>C</b>	14.0	<b>N</b>	16.0	<b>O</b>	19.0	<b>F</b>	20.2	<b>He</b>						
lithium		beryllium																boron		carbon		nitrogen		oxygen		fluorine		neon							
3		4																5		6		7		8		9		10							
23.0	<b>Na</b>	24.3	<b>Mg</b>															27.0	<b>Al</b>	28.1	<b>Si</b>	31.0	<b>P</b>	32.1	<b>S</b>	35.5	<b>Cl</b>	39.9	<b>Ar</b>						
sodium		magnesium																aluminium		silicon		phosphorus		sulfur		chlorine		argon							
11		12																13		14		15		16		17		18							
39.1	<b>K</b>	40.1	<b>Ca</b>	45.0	<b>Sc</b>	47.9	<b>Ti</b>	50.9	<b>V</b>	52.0	<b>Cr</b>	54.9	<b>Mn</b>	55.8	<b>Fe</b>	58.9	<b>Co</b>	58.7	<b>Ni</b>	63.5	<b>Cu</b>	65.4	<b>Zn</b>	69.7	<b>Ga</b>	72.6	<b>Ge</b>	74.9	<b>As</b>	79.0	<b>Se</b>	79.9	<b>Br</b>	83.8	<b>Kr</b>
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	<b>Rb</b>	87.6	<b>Sr</b>	88.9	<b>Y</b>	91.2	<b>Zr</b>	92.9	<b>Nb</b>	96.0	<b>Mo</b>	[97]	<b>Tc</b>	101.1	<b>Ru</b>	102.9	<b>Rh</b>	106.4	<b>Pd</b>	107.9	<b>Ag</b>	112.4	<b>Cd</b>	114.8	<b>In</b>	118.7	<b>Sn</b>	121.8	<b>Sb</b>	127.6	<b>Te</b>	126.9	<b>I</b>	131.3	<b>Xe</b>
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	<b>Cs</b>	137.3	<b>Ba</b>	138.9	<b>La *</b>	178.5	<b>Hf</b>	180.9	<b>Ta</b>	183.8	<b>W</b>	186.2	<b>Re</b>	190.2	<b>Os</b>	192.2	<b>Ir</b>	195.1	<b>Pt</b>	197.0	<b>Au</b>	200.6	<b>Hg</b>	204.4	<b>Tl</b>	207.2	<b>Pb</b>	209.0	<b>Bi</b>	[209]	<b>Po</b>	[210]	<b>At</b>	[222]	<b>Rn</b>
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]	<b>Fr</b>	[226]	<b>Ra</b>	[227]	<b>Ac †</b>	[267]	<b>Rf</b>	[270]	<b>Db</b>	[269]	<b>Sg</b>	[270]	<b>Bh</b>	[270]	<b>Hs</b>	[278]	<b>Mt</b>	[281]	<b>Ds</b>	[281]	<b>Rg</b>	[285]	<b>Cn</b>	[286]	<b>Nh</b>	[289]	<b>Fl</b>	[289]	<b>Mc</b>	[293]	<b>Lv</b>	[294]	<b>Ts</b>	[294]	<b>Og</b>
francium		radium		actinium		rutherfordium		dubnium		seaborgium		bohrium		hassium		meitnerium		darmstadtium		roentgenium		copernicium		nihonium		flerovium		moscovium		livermorium		tennessine		oganesson	
87		88		89		104		105		106		107		108		109		110		111		112		113		114		115		116		117		118	

\* 58–71 Lanthanides

† 90 – 103 Actinides

140.1	Ce	140.9	Pr	144.2	Nd	[145]	Pm	150.4	Sm	152.0	Eu	157.3	Gd	158.9	Tb	162.5	Dy	164.9	Ho	167.3	Er	168.9	Tm	173.0	Yb	175.0	Lu
cerium	58	praseodymium	59	neodymium	60	promethium	61	samarium	62	europium	63	gadolinium	64	terbium	65	dysprosium	66	holmium	67	erbium	68	thulium	69	ytterbium	70	lutetium	71
232.0	Th	231.0	Pa	238.0	U	[237]	Np	[244]	Pu	[243]	Am	[247]	Cm	[247]	Bk	[251]	Cf	[252]	Es	[257]	Fm	[258]	Md	[259]	No	[262]	Lr
thorium	90	protactinium	91	uranium	92	neptunium	93	plutonium	94	americium	95	curium	96	berkelium	97	californium	98	einsteinium	99	fermium	100	mendelevium	101	nobelium	102	lawrencium	103

