

Periodic Table of the Elements

Period	Elements by Group																																											
	1 IA		2 II A																																									
1	1s	H	hydrogen	1.008	2s	Cu	copper	63.55																																				
2	2s	Li	lithium	6.94	Be	beryllium	9.01															He	helium																					
3	3s	Na	sodium	22.99	Mg	magnesium	24.31															4	Ne	neon																				
4	4s	K	potassium	39.10	Ca	calcium	40.08															18	VIII A																					
5	5s	Rb	rubidium	85.47	Sr	strontium	87.62															10	Ne	neon																				
6	6s	Cs	cesium	132.91	Ba	barium	137.33															12	II B																					
7	7s	Fr	francium	[223]	Ra	radium	[226]															2	He	helium																				
	Alkali Metals		Alkaline Earth Metals																Non-Metals		Halogens		Nobel Gases																					
	lanthanides (rare earth metals)																Non-Metals		Halogens		Nobel Gases																							
	actinides																Non-Metals		Halogens		Nobel Gases																							
	† 4f		57 La	lanthanum	138.91	58 Ce	cerium	140.12	59 Pr	praseodymium	140.91	60 Nd	neodymium	144.24	61 Pm	promethium	[145]	62 Sm	samarium	150.36	63 Eu	europeum	151.96	64 Gd	gadolinium	157.25	65 Tb	terbium	158.93	66 Dy	dysprosium	162.5	67 Ho	holmium	164.93	68 Er	erbium	167.26	69 Tm	thulium	168.93	70 Yb	ytterbium	173.05
	† 5f		89 Ac	actinium	[227]	90 Th	thorium	232.04	91 Pa	protactinium	231.04	92 U	uranium	238.03	93 Np	neptunium	[237]	94 Pu	plutonium	[244]	95 Am	americium	[243]	96 Cm	curium	[247]	97 Bk	berkelium	[247]	98 Cf	californium	[251]	99 Es	einsteinium	[252]	100 Fm	fermium	[257]	101 Md	mendelevium	[258]	102 No	nobelium	[259]

Common Polyatomic Ions

ammonium	NH_4^{+1}	perchlorate	ClO_4^{-1}	hydrogen sulfate	HSO_4^{-1}	sulfate	SO_4^{-2}	oxalate	$\text{C}_2\text{O}_4^{-2}$
hydronium	H_3O^{+1}	chlorate	ClO_3^{-1}	permanganate	MnO_4^{-1}	sulfite	SO_3^{-2}	silicate	SiO_3^{-2}
acetate	$\text{C}_2\text{H}_3\text{O}_2^{-1}$	chlorite	ClO_2^{-1}	periodate	IO_4^{-1}	phthalate	$\text{C}_8\text{H}_4\text{O}_4^{-2}$	peroxide	O_2^{-2}
hydroxide	OH^{-1}	hypochlorite	ClO^{-1}	hydrogen carbonate	HCO_3^{-1}	chromate	CrO_4^{-2}	tetraborate	$\text{B}_4\text{O}_7^{-2}$
cyanide	CN^{-1}	nitrate	NO_3^{-1}	dihydrogen phosphate	$\text{H}_2\text{PO}_4^{-1}$	dichromate	$\text{Cr}_2\text{O}_7^{-2}$	borate	BO_3^{-3}
cyanate	OCN^{-1}	nitrite	NO_2^{-1}	hydrogen phosphate	HPO_4^{-2}	carbonate	CO_3^{-2}	arsenate	AsO_4^{-3}
thiocyanate	SCN^{-1}	bromate	BrO_3^{-1}			hydrogen phosphate	HPO_4^{-2}	phosphate	PO_4^{-3}
		iodate	IO_3^{-1}					phosphite	PO_3^{-3}