

You are here: [Chapter: 3 Chemistry](#)

[Section: 3.1 The elements](#)

SubSection: 3.1.1 The periodic table of the elements with atomic numbers

[« Previous Chapter](#)

[Next Subsection »](#)

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3.1.1 The periodic table of the elements with atomic numbers

Period	Group																																	
	IA	IIA	IIIA											IVA	VA	VIA	VIIA	VIII	IB	IIB	IIIB	IVB	VB	VI B	VII B									
1			1	2																														
			H	He																														
2	3	4																			5	6	7	8	9	10								
	Li	Be																			B	C	N	O	F	Ne								
3	11	12																				13	14	15	16	17	18							
	Na	Mg																				Al	Si	P	S	Cl	Ar							
4	19	20	21												22	23	24	25	26	27	28	29	30	31	32	33	34	35	36					
	K	Ca	Sc												Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr					
5	37	38	39												40	41	42	43	44	45	46	47	48	49	50	51	52	53	54					
	Rb	Sr	Y												Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Sb	Te	I	Xe					
6	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86		
	Cs	Ba	La	Ce	Pr	Nd	Pm	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn		
7	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	(see section 3.1.2 footnotes)																
	Fr	Ra	Ac	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	No	Lr																	

The Periodic Table listing groups IA to VIIB has been in use for many years, but the American Chemical Society has now adopted the 18-column format given below (see K. L. Loening, *J. chem. Ed.*, 1984, **61**, 136).

1	2	3d	4d	5d	6d	7d	8d	9d	10d	11d	12d	13	14	15	16	17	18
H																	He
Li	Be											B	C	N	O	F	Ne
Na	Mg											Al	Si	P	S	Cl	Ar
K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr
Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Sb	Te	I	Xe
Cs	Ba	La*	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn
Fr	Ra	Ac**															
		3f	*Ce	Pr	Nd	Pm	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	
			**Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	No	Lr	

E.F.G. Herington

[« Previous Chapter](#)[Next Subsection »](#)

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