

PERIODIC TABLE OF THE ELEMENTS

Based on the electronic structure of atoms

Janet (1929), Tarantola (2000), etc.

														1	2																											
														H	He																											
														3	4																											
														Li	Be																											
														5	6	7	8	9	10	11	12																					
														B	C	N	O	F	Ne	Na	Mg																					
														13	14	15	16	17	18	19	20																					
														Al	Si	P	S	Cl	A	K	Ca																					
														21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38											
														Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr	Rb	Sr											
														39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56											
														Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Sb	Te	I	Xe	Cs	Ba											
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	87	88											
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	Fr	Ra											
89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120											
Ac	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	No	Lr	Rf	Db	Sg	Bh	Hs	Mt	Uun	Uuu	Uub	Xx	Xx	Xx	Xx	Xx	Xx	Xx	Xx											
138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170										

																								1s			
																								2s			
																								2p	3s		
																								3p	4s		
																								3d	4p	5s	
																								4d	5p	6s	
																								4f	5d	6p	7s
																								5f	6d	7p	8s

This table results from a simple filling of the natural classification of the energy levels of the atoms.

It allows a direct reading of the electronic structure.

As an example, for element (S,16) we have $1s^2 2s^2 2p^6 3s^2 3p^4$.

As some energy levels are quite close, some elements may have one or two electrons "misplaced".

These exceptional elements are: Cr, Cu, Nb, Mo, Ru, Rh, Pd, Ag, La, Gd, Pt, Au, Ac, Th, Pa, U and Cm.