ELECTRONIC CONFIGURATIONS OF THE ELEMENTS

1. Period			K	L		M			N				O				P				Q	
Number	Symbol	Name	1s	2s	2p	3s	3p	3d	4s	4p	4d	4f	5s	5p	5d	5f	6s	6p	6d	6f	7s	7p
1	H	Hydrogen	1																			
2	He	Helium	2																			

2. Period			K	L		M			N				O				P				Q	
Number	Symbol	Name	1s	2s	2p	3s	3p	3d	4s	4p	4d	4f	5s	5p	5d	5f	6s	6p	6d	6f	7s	7p
3	Li	Lithium	2	1																		
4	Be	Beryllium	2	2																		
5	B	Boron	2	2	1																	
6	C	Carbon	2	2	2																	
7	N	Nitrogen	2	2	3																	
8	O	Oxygen	2	2	4																	
9	F	Fluorine	2	2	5																	
10	Ne	Neon	2	2	6																	

3. Period			K	L		M			N				O				P				Q	
Number	Symbol	Name	1s	2s	2p	3s	3p	3d	4s	4p	4d	4f	5s	5p	5d	5f	6s	6p	6d	6f	7s	7p
11	Na	Sodium	2	2	6	1																
12	Mg	Magnesium	2	2	6	2																
13	Al	Aluminium	2	2	6	2	1															
14	Si	Silicon	2	2	6	2	2															
15	P	Phosphorus	2	2	6	2	3															
16	S	Sulfur	2	2	6	2	4															
17	Cl	Chlorine	2	2	6	2	5															
18	Ar	Argon	2	2	6	2	6															

4. Period			K	L		M			N				O				P				Q	
Number	Symbol	Name	1s	2s	2p	3s	3p	3d	4s	4p	4d	4f	5s	5p	5d	5f	6s	6p	6d	6f	7s	7p
19	K	Potassium	2	2	6	2	6	..	1													
20	Ca	Calcium	2	2	6	2	6	..	2													
21	Sc	Scandium	2	2	6	2	6	1	2													
22	Ti	Titanium	2	2	6	2	6	2	2													
23	V	Vanadium	2	2	6	2	6	3	2													
24	Cr	Chromium	2	2	6	2	6	5	1													
25	Mn	Manganese	2	2	6	2	6	5	2													

26	Fe	Iron	2	2	6	2	6	6	2													
27	Co	Cobalt	2	2	6	2	6	7	2													
28	Ni	Nickel	2	2	6	2	6	8	2													
29	Cu	Copper	2	2	6	2	6	10	1													
30	Zn	Zinc	2	2	6	2	6	10	2													
31	Ga	Gallium	2	2	6	2	6	10	2	1												
32	Ge	Germanium	2	2	6	2	6	10	2	2												
33	As	Arsenic	2	2	6	2	6	10	2	3												
34	Se	Selenium	2	2	6	2	6	10	2	4												
35	Br	Bromine	2	2	6	2	6	10	2	5												
36	Kr	Krypton	2	2	6	2	6	10	2	6												

5. Period			K	L		M			N				O				P				Q	
Number	Symbol	Name	1s	2s	2p	3s	3p	3d	4s	4p	4d	4f	5s	5p	5d	5f	6s	6p	6d	6f	7s	7p
37	Rb	Rubidium	2	2	6	2	6	10	2	6	..	..	1									
38	Sr	Strontium	2	2	6	2	6	10	2	6	..	..	2									
39	Y	Yttrium	2	2	6	2	6	10	2	6	1	..	2									
40	Zr	Zirconium	2	2	6	2	6	10	2	6	2	..	2									
41	Nb	Niobium	2	2	6	2	6	10	2	6	4	..	1									
42	Mo	Molybdenum	2	2	6	2	6	10	2	6	5	..	1									
43	Tc	Technetium	2	2	6	2	6	10	2	6	6	..	1									
44	Ru	Ruthenium	2	2	6	2	6	10	2	6	7	..	1									
45	Rh	Rhodium	2	2	6	2	6	10	2	6	8	..	1									
46	Pd	Palladium	2	2	6	2	6	10	2	6	10	..	..									
47	Ag	Silver	2	2	6	2	6	10	2	6	10	..	1									
48	Cd	Cadmium	2	2	6	2	6	10	2	6	10	..	2									
49	In	Indium	2	2	6	2	6	10	2	6	10	..	2	1								
50	Sn	Tin	2	2	6	2	6	10	2	6	10	..	2	2								
51	Sb	Antimony	2	2	6	2	6	10	2	6	10	..	2	3								
52	Te	Tellurium	2	2	6	2	6	10	2	6	10	..	2	4								
53	I	Iodine	2	2	6	2	6	10	2	6	10	..	2	5								
54	Xe	Xenon	2	2	6	2	6	10	2	6	10	..	2	6								

6. Period			K	L		M			N				O				P				Q	
Number	Symbol	Name	1s	2s	2p	3s	3p	3d	4s	4p	4d	4f	5s	5p	5d	5f	6s	6p	6d	6f	7s	7p
55	Cs	Caesium	2	2	6	2	6	10	2	6	10	..	2	6	..	..	1					
56	Ba	Barium	2	2	6	2	6	10	2	6	10	..	2	6	..	..	2					
57	La	Lanthanum	2	2	6	2	6	10	2	6	10	..	2	6	1	..	2					
58	Ce	Cerium	2	2	6	2	6	10	2	6	10	2	2	6	..	..	2					
59	Pr	Praseodymium	2	2	6	2	6	10	2	6	10	3	2	6	..	..	2					
60	Nd	Neodymium	2	2	6	2	6	10	2	6	10	4	2	6	..	..	2					
61	Pm	Promethium	2	2	6	2	6	10	2	6	10	5	2	6	..	..	2					
62	Sm	Samarium	2	2	6	2	6	10	2	6	10	6	2	6	..	..	2					

63	Eu	Europium	2	2	6	2	6	10	2	6	10	7	2	6	..	..	2				
64	Gd	Gadolinium	2	2	6	2	6	10	2	6	10	7	2	6	1	..	2				
65	Tb	Terbium	2	2	6	2	6	10	2	6	10	9	2	6	..	..	2				
66	Dy	Dysprosium	2	2	6	2	6	10	2	6	10	10	2	6	..	..	2				
67	Ho	Holmium	2	2	6	2	6	10	2	6	10	11	2	6	..	..	2				
68	Er	Erbium	2	2	6	2	6	10	2	6	10	12	2	6	..	..	2				
69	Tm	Thulium	2	2	6	2	6	10	2	6	10	13	2	6	..	..	2				
70	Yb	Ytterbium	2	2	6	2	6	10	2	6	10	14	2	6	..	..	2				
71	Lu	Lutetium	2	2	6	2	6	10	2	6	10	14	2	6	1	..	2				
72	Hf	Hafnium	2	2	6	2	6	10	2	6	10	14	2	6	2	..	2				
73	Ta	Tantalum	2	2	6	2	6	10	2	6	10	14	2	6	3	..	2				
74	W	Tungsten	2	2	6	2	6	10	2	6	10	14	2	6	4	..	2				
75	Re	Rhenium	2	2	6	2	6	10	2	6	10	14	2	6	5	..	2				
76	Os	Osmium	2	2	6	2	6	10	2	6	10	14	2	6	6	..	2				
77	Ir	Iridium	2	2	6	2	6	10	2	6	10	14	2	6	7	..	2				
78	Pt	Platinum	2	2	6	2	6	10	2	6	10	14	2	6	9	..	1				
79	Au	Gold	2	2	6	2	6	10	2	6	10	14	2	6	10	..	1				
80	Hg	Mercury	2	2	6	2	6	10	2	6	10	14	2	6	10	..	2				
81	Tl	Thallium	2	2	6	2	6	10	2	6	10	14	2	6	10	..	2	1			
82	Pb	Lead	2	2	6	2	6	10	2	6	10	14	2	6	10	..	2	2			
83	Bi	Bismuth	2	2	6	2	6	10	2	6	10	14	2	6	10	..	2	3			
84	Po	Polonium	2	2	6	2	6	10	2	6	10	14	2	6	10	..	2	4			
85	At	Astatine	2	2	6	2	6	10	2	6	10	14	2	6	10	..	2	5			
86	Rn	Radon	2	2	6	2	6	10	2	6	10	14	2	6	10	..	2	6			

7. Period			K	L		M			N				O				P				Q	
Number	Symbol	Name	1s	2s	2p	3s	3p	3d	4s	4p	4d	4f	5s	5p	5d	5f	6s	6p	6d	6f	7s	7p
87	Fr	Francium	2	2	6	2	6	10	2	6	10	14	2	6	10	..	2	6	..	..	1	
88	Ra	Radium	2	2	6	2	6	10	2	6	10	14	2	6	10	..	2	6	..	..	2	
89	Ac	Actinium	2	2	6	2	6	10	2	6	10	14	2	6	10	..	2	6	1	..	2	
90	Th	Thorium	2	2	6	2	6	10	2	6	10	14	2	6	10	..	2	6	2	..	2	
91	Pa	Protactinium	2	2	6	2	6	10	2	6	10	14	2	6	10	2	2	6	1	..	2	
92	U	Uranium	2	2	6	2	6	10	2	6	10	14	2	6	10	3	2	6	1	..	2	
93	Np	Neptunium	2	2	6	2	6	10	2	6	10	14	2	6	10	4	2	6	1	..	2	
94	Pu	Plutonium	2	2	6	2	6	10	2	6	10	14	2	6	10	6	2	6	..	..	2	
95	Am	Americium	2	2	6	2	6	10	2	6	10	14	2	6	10	7	2	6	..	..	2	
96	Cm	Curium	2	2	6	2	6	10	2	6	10	14	2	6	10	7	2	6	1	..	2	
97	Bk	Berkelium	2	2	6	2	6	10	2	6	10	14	2	6	10	9	2	6	..	..	2	
98	Cf	Californium	2	2	6	2	6	10	2	6	10	14	2	6	10	10	2	6	..	..	2	
99	Es	Einsteinium	2	2	6	2	6	10	2	6	10	14	2	6	10	11	2	6	..	..	2	
100	Fm	Fermium	2	2	6	2	6	10	2	6	10	14	2	6	10	12	2	6	..	..	2	
101	Md	Mendelevium	2	2	6	2	6	10	2	6	10	14	2	6	10	13	2	6	..	..	2	
102	No	Nobelium	2	2	6	2	6	10	2	6	10	14	2	6	10	14	2	6	..	..	2	

103	Lr	Lawrencium	2	2	6	2	6	10	2	6	10	14	2	6	10	14	2	6	1	..	2	
104	Rf	Rutherfordium	2	2	6	2	6	10	2	6	10	14	2	6	10	14	2	6	2	..	2	
105	Db	Dubnium	2	2	6	2	6	10	2	6	10	14	2	6	10	14	2	6	3	..	2	
106	Sg	Seaborgium	2	2	6	2	6	10	2	6	10	14	2	6	10	14	2	6	4	..	2	
107	Bh	Bohrium	2	2	6	2	6	10	2	6	10	14	2	6	10	14	2	6	5	..	2	
108	Hs	Hassium	2	2	6	2	6	10	2	6	10	14	2	6	10	14	2	6	6	..	2	
109	Mt	Meitnerium	2	2	6	2	6	10	2	6	10	14	2	6	10	14	2	6	7	..	2	
110	Ds	Darmstadtium	2	2	6	2	6	10	2	6	10	14	2	6	10	14	2	6	9	..	1	
111	Rg	Roentgenium	2	2	6	2	6	10	2	6	10	14	2	6	10	14	2	6	10	..	1	
112	Cn	Copernicium	2	2	6	2	6	10	2	6	10	14	2	6	10	14	2	6	10	..	2	
113	Nh	Nihonium	2	2	6	2	6	10	2	6	10	14	2	6	10	14	2	6	10	..	2	1
114	Fl	Flerovium	2	2	6	2	6	10	2	6	10	14	2	6	10	14	2	6	10	..	2	2
115	Mc	Moscovium	2	2	6	2	6	10	2	6	10	14	2	6	10	14	2	6	10	..	2	3
116	Lv	Livermorium	2	2	6	2	6	10	2	6	10	14	2	6	10	14	2	6	10	..	2	4
117	Ts	#Tenesi#	2	2	6	2	6	10	2	6	10	14	2	6	10	14	2	6	10	..	2	5
118	Og	Oganesson	2	2	6	2	6	10	2	6	10	14	2	6	10	14	2	6	10	..	2	6

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