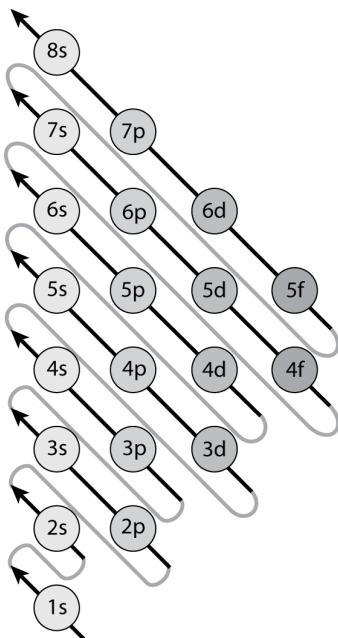


# ELECTRON ORBITAL CONFIGURATION

The approximate order that electron orbitals are filled:



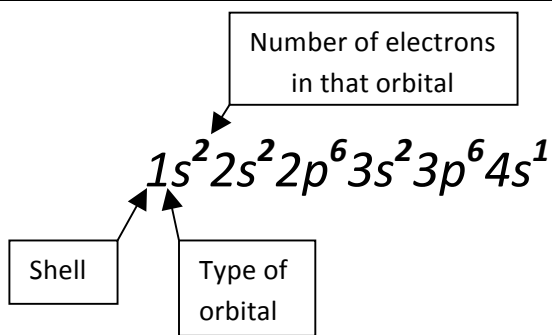
Specific electron orbital configurations for each element:

Element	Number of electrons in neutral atom	Ground State Electron Orbital Configuration	
H	1	$1s^1$	
He	2	$1s^2$	
Li	3	$1s^2 2s^1$	OR $[\text{He}]2s^1$
Be	4	$1s^2 2s^2$	OR $[\text{He}]2s^2$
B	5	$1s^2 2s^2 2p^1$	OR $[\text{He}]2s^2 2p^1$
C	6	$1s^2 2s^2 2p^2$	OR $[\text{He}]2s^2 2p^2$
N	7	$1s^2 2s^2 2p^3$	OR $[\text{He}]2s^2 2p^3$
O	8	$1s^2 2s^2 2p^4$	OR $[\text{He}]2s^2 2p^4$
F	9	$1s^2 2s^2 2p^5$	OR $[\text{He}]2s^2 2p^5$
Ne	10	$1s^2 2s^2 2p^6$	OR $[\text{He}]2s^2 2p^6$
Na	11	$1s^2 2s^2 2p^6 3s^1$	OR $[\text{Ne}]3s^1$
Mg	12	$1s^2 2s^2 2p^6 3s^2$	OR $[\text{Ne}]3s^2$
Al	13	$1s^2 2s^2 2p^6 3s^2 3p^1$	OR $[\text{Ne}]3s^2 3p^1$
Si	14	$1s^2 2s^2 2p^6 3s^2 3p^2$	OR $[\text{Ne}]3s^2 3p^2$
P	15	$1s^2 2s^2 2p^6 3s^2 3p^3$	OR $[\text{Ne}]3s^2 3p^3$
S	16	$1s^2 2s^2 2p^6 3s^2 3p^4$	OR $[\text{Ne}]3s^2 3p^4$
Cl	17	$1s^2 2s^2 2p^6 3s^2 3p^5$	OR $[\text{Ne}]3s^2 3p^5$
Ar	18	$1s^2 2s^2 2p^6 3s^2 3p^6$	OR $[\text{Ne}]3s^2 3p^6$
K	19	$1s^2 2s^2 2p^6 3s^2 3p^6 4s^1$	OR $[\text{Ar}]4s^1$
Ca	20	$1s^2 2s^2 2p^6 3s^2 3p^6 4s^2$	OR $[\text{Ar}]4s^2$
Sc	21	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^1 4s^2$	OR $[\text{Ar}]3d^1 4s^2$
Ti	22	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^2 4s^2$	OR $[\text{Ar}]3d^2 4s^2$
V	23	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^3 4s^2$	OR $[\text{Ar}]3d^3 4s^2$
Cr	24	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^5 4s^1$	OR $[\text{Ar}]3d^5 4s^1$

Element	Number of electrons in neutral atom	Ground State Electron Orbital Configuration		
Mn	25	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^5 4s^2$	OR	$[\text{Ar}]3d^5 4s^2$
Fe	26	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^6 4s^2$	OR	$[\text{Ar}]3d^6 4s^2$
Co	27	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^7 4s^2$	OR	$[\text{Ar}]3d^7 4s^2$
Ni	28	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^8 4s^1$	OR	$[\text{Ar}]3d^8 4s^1$
Cu	29	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^1$	OR	$[\text{Ar}]3d^{10} 4s^1$
Zn	30	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2$	OR	$[\text{Ar}]3d^{10} 4s^2$
Ga	31	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^1$	OR	$[\text{Ar}]3d^{10} 4s^2 4p^1$
Ge	32	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^2$	OR	$[\text{Ar}]3d^{10} 4s^2 4p^2$
As	33	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^3$	OR	$[\text{Ar}]3d^{10} 4s^2 4p^3$
Se	34	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^4$	OR	$[\text{Ar}]3d^{10} 4s^2 4p^4$
Br	35	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^5$	OR	$[\text{Ar}]3d^{10} 4s^2 4p^5$
Kr	36	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^6$	OR	$[\text{Ar}]3d^{10} 4s^2 4p^6$
Rb	37	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^6 5s^1$	OR	$[\text{Kr}]5s^1$
Sr	38	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^6 5s^2$	OR	$[\text{Kr}]5s^2$
Y	39	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^6 4d^1 5s^2$	OR	$[\text{Kr}]4d^1 5s^2$
Zr	40	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^6 4d^2 5s^2$	OR	$[\text{Kr}]4d^2 5s^2$
Nb	41	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^6 4d^4 5s^1$	OR	$[\text{Kr}]4d^4 5s^1$
Mo	42	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^6 4d^5 5s^1$	OR	$[\text{Kr}]4d^5 5s^1$
Tc	43	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^6 4d^5 5s^2$	OR	$[\text{Kr}]4d^5 5s^2$
Ru	44	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^6 4d^7 5s^1$	OR	$[\text{Kr}]4d^7 5s^1$
Rh	45	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^6 4d^8 5s^1$	OR	$[\text{Kr}]4d^8 5s^1$
Pd	46	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^6 4d^{10}$	OR	$[\text{Kr}]4d^{10}$
Ag	47	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^6 4d^{10} 5s^1$	OR	$[\text{Kr}]4d^{10} 5s^1$
Cd	48	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^6 4d^{10} 5s^2$	OR	$[\text{Kr}]4d^{10} 5s^2$
In	49	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^6 4d^{10} 5s^2 5p^1$	OR	$[\text{Kr}]4d^{10} 5s^2 5p^1$
Sn	50	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^6 4d^{10} 5s^2 5p^2$	OR	$[\text{Kr}]4d^{10} 5s^2 5p^2$
Sb	51	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^6 4d^{10} 5s^2 5p^3$	OR	$[\text{Kr}]4d^{10} 5s^2 5p^3$
Te	52	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^6 4d^{10} 5s^2 5p^4$	OR	$[\text{Kr}]4d^{10} 5s^2 5p^4$
I	53	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^6 4d^{10} 5s^2 5p^5$	OR	$[\text{Kr}]4d^{10} 5s^2 5p^5$
Xe	54	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^6 4d^{10} 5s^2 5p^6$	OR	$[\text{Kr}]4d^{10} 5s^2 5p^6$
Cs	55	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^6 4d^{10} 5s^2 5p^6 6s^1$	OR	$[\text{Xe}]6s^1$
Ba	56	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^6 4d^{10} 5s^2 5p^6 6s^2$	OR	$[\text{Xe}]6s^2$
La	57	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^6 4d^{10} 5s^2 5p^6 5d^1 6s^2$	OR	$[\text{Xe}]5d^1 6s^2$
Ce	58	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^6 4d^{10} 4f^1 5s^2 5p^6 5d^1 6s^2$	OR	$[\text{Xe}]4f^1 5d^1 6s^2$
Pr	59	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^6 4d^{10} 4f^3 5s^2 5p^6 6s^2$	OR	$[\text{Xe}]4f^3 6s^2$
Nd	60	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^6 4d^{10} 4f^4 5s^2 5p^6 6s^2$	OR	$[\text{Xe}]4f^4 6s^2$
Pm	61	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^6 4d^{10} 4f^5 5s^2 5p^6 6s^2$	OR	$[\text{Xe}]4f^5 6s^2$
Sm	62	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^6 4d^{10} 4f^6 5s^2 5p^6 6s^2$	OR	$[\text{Xe}]4f^6 6s^2$
Eu	63	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^6 4d^{10} 4f^7 5s^2 5p^6 6s^2$	OR	$[\text{Xe}]4f^7 6s^2$
Gd	64	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^6 4d^{10} 4f^7 5s^2 5p^6 5d^1 6s^2$	OR	$[\text{Xe}]4f^7 5d^1 6s^2$
Tb	65	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^6 4d^{10} 4f^9 5s^2 5p^6 6s^2$	OR	$[\text{Xe}]4f^9 6s^2$
Dy	66	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^6 4d^{10} 4f^{10} 5s^2 5p^6 6s^2$	OR	$[\text{Xe}]4f^{10} 6s^2$
Ho	67	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^6 4d^{10} 4f^{11} 5s^2 5p^6 6s^2$	OR	$[\text{Xe}]4f^{11} 6s^2$
Er	68	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^6 4d^{10} 4f^{12} 5s^2 5p^6 6s^2$	OR	$[\text{Xe}]4f^{12} 6s^2$
Tm	69	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^6 4d^{10} 4f^{13} 5s^2 5p^6 6s^2$	OR	$[\text{Xe}]4f^{13} 6s^2$
Yb	70	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^6 4d^{10} 4f^{14} 5s^2 5p^6 6s^2$	OR	$[\text{Xe}]4f^{14} 6s^2$
Lu	71	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^6 4d^{10} 4f^{14} 5s^2 5p^6 5d^1 6s^2$	OR	$[\text{Xe}]4f^{14} 5d^1 6s^2$
Hf	72	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^6 4d^{10} 4f^{14} 5s^2 5p^6 5d^2 6s^2$	OR	$[\text{Xe}]4f^{14} 5d^2 6s^2$



Element	Number of electrons in neutral atom	Ground State Electron Orbital Configuration		
Ta	73	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^6 4d^{10} 4f^{14} 5s^2 5p^6 5d^3 6s^2$	OR	$[\text{Xe}]4f^{14}5d^36s^2$
W	74	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^6 4d^{10} 4f^{14} 5s^2 5p^6 5d^4 6s^2$	OR	$[\text{Xe}]4f^{14}5d^46s^2$
Re	75	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^6 4d^{10} 4f^{14} 5s^2 5p^6 5d^5 6s^2$	OR	$[\text{Xe}]4f^{14}5d^56s^2$
Os	76	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^6 4d^{10} 4f^{14} 5s^2 5p^6 5d^6 6s^2$	OR	$[\text{Xe}]4f^{14}5d^66s^2$
Ir	77	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^6 4d^{10} 4f^{14} 5s^2 5p^6 5d^7 6s^2$	OR	$[\text{Xe}]4f^{14}5d^76s^2$
Pt	78	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^6 4d^{10} 4f^{14} 5s^2 5p^6 5d^9 6s^1$	OR	$[\text{Xe}]4f^{14}5d^96s^1$
Au	79	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^6 4d^{10} 4f^{14} 5s^2 5p^6 5d^{10} 6s^1$	OR	$[\text{Xe}]4f^{14}5d^{10}6s^1$
Hg	80	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^6 4d^{10} 4f^{14} 5s^2 5p^6 5d^{10} 6s^2$	OR	$[\text{Xe}]4f^{14}5d^{10}6s^2$
Tl	81	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^6 4d^{10} 4f^{14} 5s^2 5p^6 5d^{10} 6s^2 6p^1$	OR	$[\text{Xe}]4f^{14}5d^{10}6s^2 6p^1$
Pb	82	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^6 4d^{10} 4f^{14} 5s^2 5p^6 5d^{10} 6s^2 6p^2$	OR	$[\text{Xe}]4f^{14}5d^{10}6s^2 6p^2$
Bi	83	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^6 4d^{10} 4f^{14} 5s^2 5p^6 5d^{10} 6s^2 6p^3$	OR	$[\text{Xe}]4f^{14}5d^{10}6s^2 6p^3$
Po	84	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^6 4d^{10} 4f^{14} 5s^2 5p^6 5d^{10} 6s^2 6p^4$	OR	$[\text{Xe}]4f^{14}5d^{10}6s^2 6p^4$
At	85	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^6 4d^{10} 4f^{14} 5s^2 5p^6 5d^{10} 6s^2 6p^5$	OR	$[\text{Xe}]4f^{14}5d^{10}6s^2 6p^5$
Rn	86	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^6 4d^{10} 4f^{14} 5s^2 5p^6 5d^{10} 6s^2 6p^6$	OR	$[\text{Xe}]4f^{14}5d^{10}6s^2 6p^6$
Fr	87	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^6 4d^{10} 4f^{14} 5s^2 5p^6 5d^{10} 6s^2 6p^6 7s^1$	OR	$[\text{Rn}]7s^1$
Ra	88	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^6 4d^{10} 4f^{14} 5s^2 5p^6 5d^{10} 6s^2 6p^6 7s^2$	OR	$[\text{Rn}]7s^2$
Ac	89	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^6 4d^{10} 4f^{14} 5s^2 5p^6 5d^{10} 6s^2 6p^6 6d^1 7s^2$	OR	$[\text{Rn}]6d^1 7s^2$
Th	90	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^6 4d^{10} 4f^{14} 5s^2 5p^6 5d^{10} 6s^2 6p^6 6d^2 7s^2$	OR	$[\text{Rn}]6d^2 7s^2$
Pa	91	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^6 4d^{10} 4f^{14} 5s^2 5p^6 5d^{10} 5f^2 6s^2 6p^6 6d^1 7s^2$	OR	$[\text{Rn}]5f^2 6d^1 7s^2$
U	92	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^6 4d^{10} 4f^{14} 5s^2 5p^6 5d^{10} 5f^3 6s^2 6p^6 6d^1 7s^2$	OR	$[\text{Rn}]5f^3 6d^1 7s^2$
Np	93	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^6 4d^{10} 4f^{14} 5s^2 5p^6 5d^{10} 5f^4 6s^2 6p^6 6d^1 7s^2$	OR	$[\text{Rn}]5f^4 6d^1 7s^2$
Pu	94	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^6 4d^{10} 4f^{14} 5s^2 5p^6 5d^{10} 5f^6 6s^2 6p^6 7s^2$	OR	$[\text{Rn}]5f^6 7s^2$
Am	95	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^6 4d^{10} 4f^{14} 5s^2 5p^6 5d^{10} 5f^7 6s^2 6p^6 7s^2$	OR	$[\text{Rn}]5f^7 7s^2$
Cm	96	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^6 4d^{10} 4f^{14} 5s^2 5p^6 5d^{10} 5f^8 6s^2 6p^6 6d^1 7s^2$	OR	$[\text{Rn}]5f^8 6d^1 7s^2$
Bk	97	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^6 4d^{10} 4f^{14} 5s^2 5p^6 5d^{10} 5f^9 6s^2 6p^6 7s^2$	OR	$[\text{Rn}]5f^9 7s^2$
Cf	98	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^6 4d^{10} 4f^{14} 5s^2 5p^6 5d^{10} 5f^{10} 6s^2 6p^6 7s^2$	OR	$[\text{Rn}]5f^{10} 7s^2$
Es	99	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^6 4d^{10} 4f^{14} 5s^2 5p^6 5d^{10} 5f^{11} 6s^2 6p^6 7s^2$	OR	$[\text{Rn}]5f^{11} 7s^2$
Fm	100	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^6 4d^{10} 4f^{14} 5s^2 5p^6 5d^{10} 5f^{12} 6s^2 6p^6 7s^2$	OR	$[\text{Rn}]5f^{12} 7s^2$
Md	101	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^6 4d^{10} 4f^{14} 5s^2 5p^6 5d^{10} 5f^{13} 6s^2 6p^6 7s^2$	OR	$[\text{Rn}]5f^{13} 7s^2$
No	102	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^6 4d^{10} 4f^{14} 5s^2 5p^6 5d^{10} 5f^{14} 6s^2 6p^6 7s^2$	OR	$[\text{Rn}]5f^{14} 7s^2$
Lr	103	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^6 4d^{10} 4f^{14} 5s^2 5p^6 5d^{10} 5f^{14} 6s^2 6p^6 7s^2 7p^1$	OR	$[\text{Rn}]5f^{14} 7s^2 7p^1$
Rf	104	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^6 4d^{10} 4f^{14} 5s^2 5p^6 5d^{10} 5f^{14} 6s^2 6p^6 6d^2 7s^2$	OR	$[\text{Rn}]5f^{14} 6d^2 7s^2$
Db	105	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^6 4d^{10} 4f^{14} 5s^2 5p^6 5d^{10} 5f^{14} 6s^2 6p^6 6d^3 7s^2$	OR	$[\text{Rn}]5f^{14} 6d^3 7s^2$
Sg	106	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^6 4d^{10} 4f^{14} 5s^2 5p^6 5d^{10} 5f^{14} 6s^2 6p^6 6d^4 7s^2$	OR	$[\text{Rn}]5f^{14} 6d^4 7s^2$
Bh	107	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^6 4d^{10} 4f^{14} 5s^2 5p^6 5d^{10} 5f^{14} 6s^2 6p^6 6d^5 7s^2$	OR	$[\text{Rn}]5f^{14} 6d^5 7s^2$
Hs	108	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^6 4d^{10} 4f^{14} 5s^2 5p^6 5d^{10} 5f^{14} 6s^2 6p^6 6d^6 7s^2$	OR	$[\text{Rn}]5f^{14} 6d^6 7s^2$
Mt	109	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^6 4d^{10} 4f^{14} 5s^2 5p^6 5d^{10} 5f^{14} 6s^2 6p^6 6d^7 7s^2$	OR	$[\text{Rn}]5f^{14} 6d^7 7s^2$
Ds	110	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^6 4d^{10} 4f^{14} 5s^2 5p^6 5d^{10} 5f^{14} 6s^2 6p^6 6d^9 7s^1$	OR	$[\text{Rn}]5f^{14} 6d^9 7s^1$
Rg	111	$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^2 4p^6 4d^{10} 4f^{14} 5s^2 5p^6 5d^{10} 5f^{14} 6s^2 6p^6 6d^{10} 7s^1$	OR	$[\text{Rn}]5f^{14} 6d^{10} 7s^1$



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