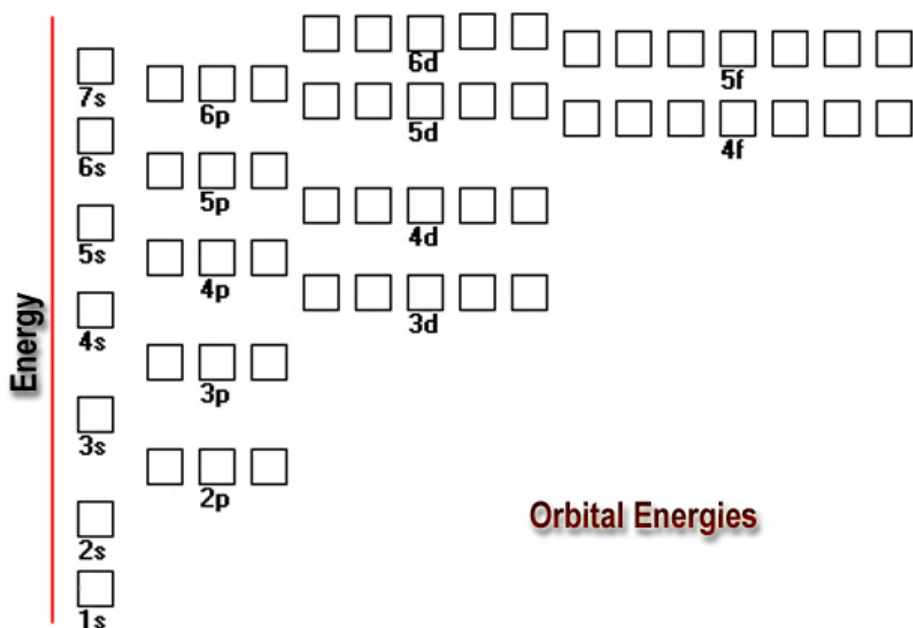


Element	# Electrons	Electronic Configuration	Valence Configuration	# Valence Electrons
H	1	$1s^1$	$1s^1$	1
He	2	$1s^2$	$1s^2$	2
Li	3	$1s^2 2s^1$	$[\text{He}] 2s^1$	1
Be	4	$1s^2 2s^2$	$[\text{He}] 2s^2$	2
B	5	$1s^2 2s^2 2p^1$	$[\text{He}] 2s^2 2p^1$	3
C	6	$1s^2 2s^2 2p^2$	$[\text{He}] 2s^2 2p^2$	4
N	7	$1s^2 2s^2 2p^3$	$[\text{He}] 2s^2 2p^3$	5
O	8	$1s^2 2s^2 2p^4$	$[\text{He}] 2s^2 2p^4$	6
F	9	$1s^2 2s^2 2p^5$	$[\text{He}] 2s^2 2p^5$	7
Ne	10	$1s^2 2s^2 2p^6$	$[\text{He}] 2s^2 2p^6$	8
Na	11	$1s^2 2s^2 2p^6 3s^1$	$[\text{Ne}] 3s^1$	1
Mg	12	$1s^2 2s^2 2p^6 3s^2$	$[\text{Ne}] 3s^2$	2
Al	13	$1s^2 2s^2 2p^6 3s^2 3p^1$	$[\text{Ne}] 3s^2 3p^1$	3
Si	14	$1s^2 2s^2 2p^6 3s^2 3p^2$	$[\text{Ne}] 3s^2 3p^2$	4
P	15	$1s^2 2s^2 2p^6 3s^2 3p^3$	$[\text{Ne}] 3s^2 3p^3$	5
S	16	$1s^2 2s^2 2p^6 3s^2 3p^4$	$[\text{Ne}] 3s^2 3p^4$	6
Cl	17	$1s^2 2s^2 2p^6 3s^2 3p^5$	$[\text{Ne}] 3s^2 3p^5$	7
Ar	18	$1s^2 2s^2 2p^6 3s^2 3p^6$	$[\text{Ne}] 3s^2 3p^6$	8



Element	# Electrons	Electronic Configuration	Valence Configuration	# Valence Electrons
Gp 2A				
Be			[He] 2s ²	2
Mg			[Ne] 3s ²	2
Ca			[Ar] 4s ²	2
Sr			[Kr] 5s ²	2
Gp 6A				
O			[He] 2s ² 2p ⁴	6
S			[Ne] 3s ² 3p ⁴	6
Se			[Ar] 4s ² 3d ¹⁰ 4p ⁴	6
Te			[Kr] 5s ² 4d ¹⁰ 5p ⁴	6
Gp 8A				
He	2		1s ²	2
Ne	10		[He] 2s ² 2p ⁶	8
Ar	18		[Ne] 3s ² 3p ⁶	8
Kr	36		[Ar] 4s ² 3d ¹⁰ 4p ⁶	8
Xe	54		[Kr] 5s ² 4d ¹⁰ 5p ⁶	8
Rn	86		[Xe] 6s ² 5d ¹⁰ 4f ¹⁴ 6p ⁶	8