

Periodic Table of the Elements

PERIOD	Electron Shells																		18		VIII A		
	1	2	3	4	5	6	7	8											2	0	2	0	
Energy Level		Shell Name																					
Shell Name		K	L	M	N	O	P	Q	R														
Max Electrons		2	8	18	32	32	18	8	2														
s		2	2	2	2	2	2	2	2														
p			6	6	6	6	6	6															
d				10	10	10	10																
f						14	14																
1	1																	18	0				
	1																	2	0				
	2																	2	0				
	3																	2	0				
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	102																	2	0				
	103																	2	0				

Group (IUPAC) → 2 **IIA** ← **Group (CAS)**

Atomic Number → 4 **+3** ← **Valence Charge**

Be ← **Symbol**

Beryllium ← **Name**

9.012 ← **Atomic Mass**

2 2 ← **Electron Shell Configuration**

Lanthanoids

57	58	59	60	61	62	63	64	65	66	67	68	69	70	71
La	Ce	Pr	Nd	Pm	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu
Lanthanum 138.905	Cerium 140.116	Praseodymium 138.905	Neodymium 144.243	Promethium 144.913	Samarium 150.36	Europium 151.964	Gadolinium 157.25	Terbium 158.925	Dysprosium 162.500	Holmium 164.930	Erbium 167.259	Thulium 168.934	Ytterbium 173.055	Lutetium 174.967
2 8 18 18 9 2	2 8 18 19 9 2	2 8 18 21 8 2	2 8 18 22 8 2	2 8 18 23 8 2	2 8 18 24 8 2	2 8 18 25 8 2	2 8 18 25 9 2	2 8 18 27 8 2	2 8 18 28 8 2	2 8 18 29 8 2	2 8 18 30 8 2	2 8 18 31 8 2	2 8 18 32 8 2	2 8 18 32 9 2

Actinoids

89	90	91	92	93	94	95	96	97	98	99	100	101	102	103
Ac	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	No	Lr
Actinium 227.028	Thorium 232.038	Protactinium 231.036	Uranium 238.029	Neptunium 237.048	Plutonium 239.048	Americium 243.061	Curium 247.070	Berkelium 247.070	Californium 251.080	Einsteinium [254]	Fermium 257.095	Mendelevium 258.1	Nobelium 259.101	Lawrencium [262]
2 8 18 32 18 9 2	2 8 18 32 18 10 2	2 8 18 32 20 9 2	2 8 18 32 21 9 2	2 8 18 32 22 9 2	2 8 18 32 24 8 2	2 8 18 32 25 8 2	2 8 18 32 25 9 2	2 8 18 32 27 8 2	2 8 18 32 28 8 2	2 8 18 32 29 8 2	2 8 18 32 30 8 2	2 8 18 32 31 8 2	2 8 18 32 32 8 2	2 8 18 32 32 8 3