

group		1																18					
period		1	2															18					
1	1*	1 H																2 He					
2		3 Li	4 Be															5 B	6 C	7 N	8 O	9 F	10 Ne
3		11 Na	12 Mg	3	4	5	6	7	8	9	10	11	12	13 Al	14 Si	15 P	16 S	17 Cl	18 Ar				
4		19 K	20 Ca	21 Sc	22 Ti	23 V	24 Cr	25 Mn	26 Fe	27 Co	28 Ni	29 Cu	30 Zn	31 Ga	32 Ge	33 As	34 Se	35 Br	36 Kr				
5		37 Rb	38 Sr	39 Y	40 Zr	41 Nb	42 Mo	43 Tc	44 Ru	45 Rh	46 Pd	47 Ag	48 Cd	49 In	50 Sn	51 Sb	52 Te	53 I	54 Xe				
6		55 Cs	56 Ba	57 La	72 Hf	73 Ta	74 W	75 Re	76 Os	77 Ir	78 Pt	79 Au	80 Hg	81 Tl	82 Pb	83 Bi	84 Po	85 At	86 Rn				
7		87 Fr	88 Ra	89 Ac	104 Rf	105 Db	106 Sg	107 Bh	108 Hs	109 Mt	110 Ds	111 Rg	112 Cn	113 Nh	114 Fl	115 Mc	116 Lv	117 Ts	118 Og				
lanthanoid series		6	58 Ce	59 Pr	60 Nd	61 Pm	62 Sm	63 Eu	64 Gd	65 Tb	66 Dy	67 Ho	68 Er	69 Tm	70 Yb	71 Lu							
actinoid series		7	90 Th	91 Pa	92 U	93 Np	94 Pu	95 Am	96 Cm	97 Bk	98 Cf	99 Es	100 Fm	101 Md	102 No	103 Lr							

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The Periodic Table by Energy Levels

Element	Element Number	Number of				Number of Electrons in each Level						
		Protons/ Electrons	Neutrons	Energy Levels		1st Level	2nd Level	3rd Level	4th Level	5th Level	6th Level	7th Level
Hydrogen	1	1	0	1		1						
Helium	2	2	2	1		2						
Lithium	3	3	4	2		2	1					
Beryllium	4	4	5	2		2	2					
Boron	5	5	6	2		2	3					
Carbon	6	6	6	2		2	4					
Nitrogen	7	7	7	2		2	5					
Oxygen	8	8	8	2		2	6					
Fluorine	9	9	10	2		2	7					
Neon	10	10	10	2		2	8					
Sodium	11	11	12	3		2	8	1				
Magnesium	12	12	12	3		2	8	2				
Aluminum	13	13	14	3		2	8	3				
Silicon	14	14	14	3		2	8	4				
Phosphorus	15	15	16	3		2	8	5				
Sulfur	16	16	16	3		2	8	6				

Chlorine	17	17	18	3		2	8	7				
Argon	18	18	22	3		2	8	8				
Potassium	19	19	20	4		2	8	8	1			
Calcium	20	20	20	4		2	8	8	2			
Scandium	21	21	24	4		2	8	9	2			
Titanium	22	26	22	4		2	8	10	2			
Vanadium	23	23	28	4		2	8	11	2			
Chromium	24	24	28	4		2	8	13	1			
Manganese	25	25	30	4		2	8	13	2			
Iron	26	26	30	4		2	8	14	2			
Cobalt	27	27	32	4		2	8	15	2			
Nickel	28	28	31	4		2	8	16	2			
Copper	29	29	35	4		2	8	18	1			
Zinc	30	35	30	4		2	8	18	2			
Gallium	31	31	39	4		2	8	18	3			
Germanium	32	32	41	4		2	8	18	4			
Arsenic	33	33	42	4		2	8	18	5			
Selenium	34	34	45	4		2	8	18	6			
Bromine	35	35	45	4		2	8	18	7			
Krypton	36	36	48	4		2	8	18	8			
Rubidium	37	37	48	5		2	8	18	8	1		

Strontium	38	38	50	5		2	8	18	8	2		
Yttrium	39	39	50	5		2	8	18	9	2		
Zirconium	40	40	51	5		2	8	18	10	2		
Niobium	41	41	52	5		2	8	18	12	1		
Molybdenum	42	42	54	5		2	8	18	13	1		
Technetium	43	43	55	5		2	8	18	14	1		
Ruthenium	44	44	57	5		2	8	18	15	1		
Rhodium	45	45	58	5		2	8	18	16	1		
Palladium	46	46	60	5		2	8	18	18	0		
Silver	47	47	61	5		2	8	18	18	1		
Cadmium	48	48	64	5		2	8	18	18	2		
Indium	49	49	66	5		2	8	18	18	3		
Tin	50	50	69	5		2	8	18	18	4		
Antimony	51	51	71	5		2	8	18	18	5		
Tellurium	52	52	76	5		2	8	18	18	6		
Iodine	53	53	74	5		2	8	18	18	7		
Xenon	54	54	77	5		2	8	18	18	8		
Cesium	55	55	78	6		2	8	18	18	8	1	
Barium	56	56	81	6		2	8	18	18	8	2	
Lanthanum	57	57	82	6		2	8	18	18	9	2	
Cerium	58	58	82	6		2	8	18	20	8	2	

Praseodymium	59	59	82	6		2	8	18	21	8	2	
Neodymium	60	60	84	6		2	8	18	22	8	2	
Promethium	61	61	84	6		2	8	18	23	8	2	
Samarium	62	62	88	6		2	8	18	24	8	2	
Europium	63	63	89	6		2	8	18	25	8	2	
Gadolinium	64	64	93	6		2	8	18	25	9	2	
Terbium	65	65	94	6		2	8	18	27	8	2	
Dysprosium	66	66	97	6		2	8	18	28	8	2	
Holmium	67	67	98	6		2	8	18	29	8	2	
Erbium	68	68	99	6		2	8	18	30	8	2	
Thulium	69	69	100	6		2	8	18	31	8	2	
Ytterbium	70	70	103	6		2	8	18	32	8	2	
Lutetium	71	71	104	6		2	8	18	32	9	2	
Hafnium	72	72	106	6		2	8	18	32	10	2	
Tantalum	73	73	108	6		2	8	18	32	11	2	
Tungsten	74	74	110	6		2	8	18	32	12	2	
Rhenium	75	75	111	6		2	8	18	32	13	2	
Osmium	76	76	114	6		2	8	18	32	14	2	
Iridium	77	77	115	6		2	8	18	32	15	2	
Platinum	78	78	117	6		2	8	18	32	17	1	
Gold	79	79	118	6		2	8	18	32	18	1	

Mercury	80	80	121	6		2	8	18	32	15	2	
Thallium	81	81	123	6		2	8	18	32	18	3	
Lead	82	82	125	6		2	8	18	32	18	4	
Bismuth	83	83	126	6		2	8	18	32	18	5	
Polonium	84	84	125	6		2	8	18	32	18	6	
Astatine	85	85	125	6		2	8	18	32	18	7	
Radon	86	86	136	6		2	8	18	32	18	8	
Francium	87	87	136	7		2	8	18	32	18	8	1
Radium	88	88	138	7		2	8	18	32	18	8	2
Actinium	89	89	138	7		2	8	18	32	18	9	2
Thorium	90	90	142	7		2	8	18	32	18	10	2
Protactinium	91	91	148	7		2	8	18	32	20	9	2
Uranium	92	92	146	7		2	8	18	32	21	9	2
Neptunium	93	93	144	7		2	8	18	32	23	8	2
Plutonium	94	94	150	7		2	8	18	32	24	8	2
Americium	95	95	148	7		2	8	18	32	25	8	2
Curium	96	96	151	7		2	8	18	32	25	9	2
Berkelium	97	97	150	7		2	8	18	32	26	9	2
Californium	98	98	153	7		2	8	18	32	28	8	2
Einsteinium	99	99	153	7		2	8	18	32	29	8	2
Fermium	100	100	157	7		2	8	18	32	30	8	2

Mendelevium	101	101	157	7		2	8	18	32	31	8	2
Nobelium	102	102	157	7		2	8	18	32	32	8	2
Lawrencium	103	103	159	7		2	8	18	32	32	9	2
Rutherfordium	104	104	157	7		2	8	18	32	32	10	2
Dubnium	105	105	157	7		2	8	18	32	32	11	2
Seaborgium	106	106	157	7		2	8	18	32	32	12	2
Bohrium	107	107	155	7		2	8	18	32	32	13	2
Hassium	108	108	157	7		2	8	18	32	32	14	2
Meitnerium	109	109	157	7		2	8	18	32	32	15	2
Darmstadtium	110	110	151	7		2	8	18	32	32	17	2
Roentgenium	111	111	161	7		2	8	18	32	32	18	1
Ununbium	112	112	165	7		2	8	18	32	32	18	2
Undiscovered	113											
Ununquadium	114	114	175	unk		unk	unk	unk	unk	unk	unk	unk

[List of Electron Configurations of Elements \(sciencenotes.org\)](http://sciencenotes.org)

