

# PERIODIC TABLE OF THE ELEMENTS

		1 IA		2 IIA		VIII B										13 IIIA		14 IVA		15 VA		16 VIA		17 VIIA		18 VIII A																																																																												
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103
		1A		2A		VIII B										3A		4A		5A		6A		7A		8A																																																																												
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103
H	Li	Na	K	Rb	Cs	Fr	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn	Sc	Ti	V	Cr	Mn	Fe	Cu	Zn	Ga	Ge	As	Se	Br	Kr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Sb	Te	I	Xe	Ce	Pr	Nd	Pm	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Ac	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	No	Lr																						
Hydrogen 1.0079	Lithium 6.941	Sodium 22.990	Potassium 39.098	Rubidium 85.468	Cesium 132.91	Francium (223)	Hafnium 178.49	Tantalum 180.95	Tungsten 183.84	Rhenium 186.21	Osmium 190.23	Iridium 192.22	Palladium 106.42	Gold 196.97	Mercury 200.59	Thallium 204.38	Lead 207.2	Bismuth 208.98	Polonium (209)	Astatine (210)	Radon (222)	Scandium 44.956	Titanium 47.867	Vanadium 50.942	Chromium 51.996	Manganese 54.938	Iron 55.845	Cobalt 58.933	Nickel 58.693	Copper 63.546	Zinc 65.39	Gallium 69.723	Germanium 72.64	Arsenic 74.922	Selenium 78.96	Bromine 79.904	Krypton 83.80	Yttrium 88.906	Zirconium 91.224	Niobium 92.906	Molybdenum 95.94	Technetium (98)	Ruthenium 101.07	Rhodium 102.91	Silver 107.87	Cadmium 112.41	Indium 114.82	Tin 118.71	Antimony 121.76	Tellurium 127.60	Iodine 126.90	Xenon 131.29	Cerium 140.12	Praseodymium 140.91	Neodymium 144.24	Promethium (145)	Samarium 150.36	Europium 151.96	Gadolinium 157.25	Terbium 158.93	Dysprosium 162.50	Holmium 164.93	Erbium 167.26	Thulium 168.93	Ytterbium 173.04	Lutetium 174.97	Actinium (227)	Thorium 232.04	Protactinium 231.04	Uranium 238.03	Neptunium (237)	Plutonium (244)	Americium (243)	Curium (247)	Berkelium (247)	Californium (251)	Fermium (257)	Mendelevium (258)	Nobelium (259)	Lawrencium (262)																						
Atomic Number		Symbol		Name		Electron Configuration		Carbon		Selected Oxidation States		Atomic Mass		Group IUPAC		Group CAS																																																																																						

Electron Shells		1	2	3	4	5	6	7	8
K	L	M	N	O	P	Q	R	S	T
2	8	18	32	50	72	98	128	162	200
2	8	18	32	50	72	98	128	162	200
2	8	18	32	50	72	98	128	162	200
2	8	18	32	50	72	98	128	162	200
2	8	18	32	50	72	98	128	162	200
2	8	18	32	50	72	98	128	162	200
2	8	18	32	50	72	98	128	162	200
2	8	18	32	50	72	98	128	162	200
2	8	18	32	50	72	98	128	162	200
2	8	18	32	50	72	98	128	162	200

**Lanthanide**  
57 La Ce Pr Nd Pm Sm Eu Gd Tb Dy Ho Er Tm Yb Lu

**Actinide**  
89 Ac Th Pa U Np Pu Am Cm Bk Cf Es Fm Md No Lr