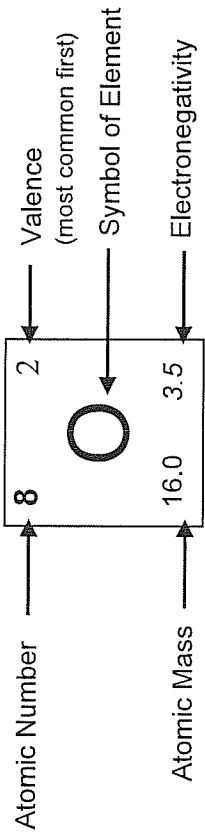


1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
H Hydrogen 1.0 2.1	He Helium 4.0 20.2	Li Lithium 6.9 9.0	Be Beryllium 9.0 15.0	B Boron 10.8 12.0	C Carbon 12.0 12.0	N Nitrogen 14.0 14.0	O Oxygen 16.0 16.0	F Fluorine 19.0 19.0	Ne Neon 20.2 20.2	Na Sodium 23.0 23.0	Mg Magnesium 24.3 24.3	Al Aluminum 27.0 27.0	Si Silicon 28.1 28.1	P Phosphorus 31.0 31.0	S Sulfur 32.1 32.1	Cl Chlorine 35.5 35.5	Ar Argon 40.0 40.0
19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
K Potassium 39.1 39.1	Ca Calcium 40.1 40.1	Sc Scandium 45.0 45.0	Ti Titanium 47.9 47.9	V Vanadium 50.9 50.9	Cr Chromium 52.0 52.0	Mn Manganese 54.9 54.9	Fe Iron 55.9 55.9	Co Cobalt 58.9 58.9	Ni Nickel 58.7 58.7	Cu Copper 63.6 63.6	Zn Zinc 65.4 65.4	Ga Gallium 69.7 69.7	Ge Germanium 72.6 72.6	As Arsenic 74.9 74.9	Se Selenium 79.0 79.0	Br Bromine 83.8 83.8	Kr Krypton 83.8 83.8
37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54
Rb Rubidium 85.5 85.5	Sr Strontium 87.6 87.6	Y Yttrium 88.9 88.9	Zr Zirconium 91.2 91.2	Nb Niobium 92.9 92.9	Mo Molybdenum 95.9 95.9	Tc Technetium 98.9 98.9	Ru Ruthenium 101.1 101.1	Rh Rhodium 102.9 102.9	Pd Palladium 106.4 106.4	Ag Silver 107.9 107.9	Cd Cadmium 112.4 112.4	In Indium 114.8 114.8	Sn Tin 118.7 118.7	Sb Antimony 121.8 121.8	Te Tellurium 127.6 127.6	I Iodine 126.9 126.9	Xe Xenon 131.3 131.3
55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72
Cs Cesium 132.9 132.9	Ba Barium 137.3 137.3	La Lanthanum 138.9 138.9	Ce Cerium 140.1 140.1	Pr Praseodymium 140.9 140.9	Nd Neodymium 144.2 144.2	Pm Promethium 145.0 145.0	Sm Samarium 150.4 150.4	Eu Europium 152.0 152.0	Gd Gadolinium 157.3 157.3	Tb Terbium 158.9 158.9	Dy Dysprosium 162.5 162.5	Ho Holmium 164.3 164.3	Er Erbium 167.3 167.3	Tm Thulium 168.9 168.9	Yb Ytterbium 173.0 173.0	Lu Lutetium 175.0 175.0	Hf Hafnium 178.5 178.5
87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104
Fr Francium [223]	Ra Radium [226]	Ac Actinium 227.0 227.0	Th Thorium 232.0 232.0	Pa Protactinium 231.0 231.0	U Uranium 238.0 238.0	Np Neptunium 237.0 237.0	Pu Plutonium 244.0 244.0	Am Americium 243.0 243.0	Cm Curium 247.0 247.0	Bk Berkelium 247.0 247.0	Cf Californium 251.0 251.0	Es Einsteinium 252.0 252.0	Fm Fermium 257.0 257.0	Md Mendelevium 258.0 258.0	No Nobelium 259.0 259.0	Lr Lawrencium 260.0 260.0	Ta Tantalum 181.0 181.0
87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104
Lu Lutetium 175.0 175.0	Hf Hafnium 178.5 178.5	Ta Tantalum 181.0 181.0	W Tungsten 183.9 183.9	Re Rhenium 186.2 186.2	Os Osmium 190.2 190.2	Ir Iridium 192.2 192.2	Pt Platinum 195.1 195.1	Au Gold 197.0 197.0	Hg Mercury 200.6 200.6	Tl Thallium 204.4 204.4	Pb Lead 207.2 207.2	Bi Bismuth 209.0 209.0	Po Polonium [209]	At Astatine [210]	Rn Radon [222]	Fr Francium [223]	Ra Radium [226]
103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
Lr Lawrencium [260]	Rf Rutherfordium [261]	Db Dubnium [262]	Sg Seaborgium [266]	Bh Bohrium [264]	Hs Hassium [269]	Mt Meitnerium [268]	Uun Ununmillium [269,271]	Uuu Unununium [272]	Uub Ununbium [277]	Uuq Ununquadium [289]	Uuh Ununhexium [289]	Uuq Ununquadium [289]	Uuh Ununhexium [289]	Uuo Ununoctium [293]	Uuo Ununoctium [293]	Uuo Ununoctium [293]	Uuo Ununoctium [293]



57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74
La Lanthanum 138.9 138.9	Ce Cerium 140.1 140.1	Pr Praseodymium 140.9 140.9	Nd Neodymium 144.2 144.2	Pm Promethium 145.0 145.0	Sm Samarium 150.4 150.4	Eu Europium 152.0 152.0	Gd Gadolinium 157.3 157.3	Tb Terbium 158.9 158.9	Dy Dysprosium 162.5 162.5	Ho Holmium 164.3 164.3	Er Erbium 167.3 167.3	Tm Thulium 168.9 168.9	Yb Ytterbium 173.0 173.0	Lu Lutetium 175.0 175.0	Hf Hafnium 178.5 178.5	Ta Tantalum 181.0 181.0	W Tungsten 183.9 183.9
89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106
Ac Actinium 227.0 227.0	Th Thorium 232.0 232.0	Pa Protactinium 231.0 231.0	U Uranium 238.0 238.0	Np Neptunium 237.0 237.0	Pu Plutonium 244.0 244.0	Am Americium 243.0 243.0	Cm Curium 247.0 247.0	Bk Berkelium 247.0 247.0	Cf Californium 251.0 251.0	Es Einsteinium 252.0 252.0	Fm Fermium 257.0 257.0	Md Mendelevium 258.0 258.0	No Nobelium 259.0 259.0	Lr Lawrencium 260.0 260.0	Ta Tantalum 181.0 181.0	W Tungsten 183.9 183.9	Re Rhenium 186.2 186.2