

# The Periodic Table of Elements

1	2	3	4	5	6	7	0 (8)
1.0 H hydrogen 1							
Key							
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
(17)	(18)						
6.9 Li lithium 3	9.0 Be beryllium 4	23.0 Na sodium 11	24.3 Mg magnesium 12	39.1 K potassium 19	40.1 Ca calcium 20	85.5 Rb rubidium 37	132.9 Cs caesium 55
23.0 Na sodium 11	24.3 Mg magnesium 12	45.0 Sc scandium 21	47.9 Ti titanium 22	50.9 V vanadium 23	52.0 Cr chromium 24	54.9 Mn manganese 25	55.8 Fe iron 26
39.1 K potassium 19	40.1 Ca calcium 20	45.0 Sc scandium 21	47.9 Ti titanium 22	50.9 V vanadium 23	52.0 Cr chromium 24	54.9 Mn manganese 25	55.8 Fe iron 26
85.5 Rb rubidium 37	87.6 Sr strontium 38	88.9 Y yttrium 39	91.2 Zr zirconium 40	92.9 Nb niobium 41	95.9 Mo molybdenum 42	[98] Tc technetium 43	101.1 Ru ruthenium 44
132.9 Cs caesium 55	137.3 Ba barium 56	138.9 La* lanthanum 57	178.5 Hf hafnium 72	180.9 Ta tantalum 73	183.8 W tungsten 74	186.2 Re rhenium 75	190.2 Os osmium 76
[223] Fr francium 87	[226] Ra radium 88	[227] Ac* actinium 89	[261] Rf rutherfordium 104	[262] Db dubnium 105	[266] Sg seaborgium 106	[264] Bh bohrium 107	[277] Hs hassium 108
Elements with atomic numbers 112-116 have been reported but not fully authenticated							
200.6 Hg mercury 80	204.4 Tl thallium 81	207.2 Pb lead 82	209.0 Bi bismuth 83	[209] Po polonium 84	[210] At astatine 85	[222] Rn radon 86	
112.4 Cd cadmium 48	114.8 In indium 49	118.7 Sn tin 50	121.8 Sb antimony 51	126.9 Te tellurium 52	127.6 I iodine 53	131.3 Xe xenon 54	
63.5 Cu copper 29	65.4 Zn zinc 30	68.7 Ga gallium 31	72.6 Ge germanium 32	74.9 As arsenic 33	79.0 Se selenium 34	79.9 Br bromine 35	83.8 Kr krypton 36
58.7 Ni nickel 28	58.9 Co cobalt 27	58.7 Ni nickel 28	58.7 Ni nickel 28	58.9 Co cobalt 27	58.9 Co cobalt 27	58.9 Co cobalt 27	58.9 Co cobalt 27
106.4 Pd palladium 46	107.9 Ag silver 47	107.9 Ag silver 47	107.9 Ag silver 47	107.9 Ag silver 47	107.9 Ag silver 47	107.9 Ag silver 47	107.9 Ag silver 47
195.1 Pt platinum 78	197.0 Au gold 79	197.0 Au gold 79	197.0 Au gold 79	197.0 Au gold 79	197.0 Au gold 79	197.0 Au gold 79	197.0 Au gold 79
[271] Ds darmstadtium 110	[272] Rg roentgenium 111	[272] Rg roentgenium 111	[272] Rg roentgenium 111	[272] Rg roentgenium 111	[272] Rg roentgenium 111	[272] Rg roentgenium 111	[272] Rg roentgenium 111
157 Gd gadolinium 64	159 Tb terbium 65	159 Tb terbium 65	159 Tb terbium 65	159 Tb terbium 65	159 Tb terbium 65	159 Tb terbium 65	159 Tb terbium 65
152 Eu europium 63	157 Gd gadolinium 64	157 Gd gadolinium 64	157 Gd gadolinium 64	157 Gd gadolinium 64	157 Gd gadolinium 64	157 Gd gadolinium 64	157 Gd gadolinium 64
150 Sm samarium 62	152 Eu europium 63	152 Eu europium 63	152 Eu europium 63	152 Eu europium 63	152 Eu europium 63	152 Eu europium 63	152 Eu europium 63
144 Nd neodymium 60	147 Pm promethium 61	147 Pm promethium 61	147 Pm promethium 61	147 Pm promethium 61	147 Pm promethium 61	147 Pm promethium 61	147 Pm promethium 61
141 Pr praseodymium 59	144 Nd neodymium 60	144 Nd neodymium 60	144 Nd neodymium 60	144 Nd neodymium 60	144 Nd neodymium 60	144 Nd neodymium 60	144 Nd neodymium 60
140 Ce cerium 58	141 Pr praseodymium 59	141 Pr praseodymium 59	141 Pr praseodymium 59	141 Pr praseodymium 59	141 Pr praseodymium 59	141 Pr praseodymium 59	141 Pr praseodymium 59
232 Th thorium 90	231 Pa protactinium 91	231 Pa protactinium 91	231 Pa protactinium 91	231 Pa protactinium 91	231 Pa protactinium 91	231 Pa protactinium 91	231 Pa protactinium 91
238 U uranium 92	237 Np neptunium 93	237 Np neptunium 93	237 Np neptunium 93	237 Np neptunium 93	237 Np neptunium 93	237 Np neptunium 93	237 Np neptunium 93
238 U uranium 92	238 U uranium 92	238 U uranium 92	238 U uranium 92	238 U uranium 92	238 U uranium 92	238 U uranium 92	238 U uranium 92
232 Th thorium 90	231 Pa protactinium 91	231 Pa protactinium 91	231 Pa protactinium 91	231 Pa protactinium 91	231 Pa protactinium 91	231 Pa protactinium 91	231 Pa protactinium 91
232 Th thorium 90	232 Th thorium 90	232 Th thorium 90	232 Th thorium 90	232 Th thorium 90	232 Th thorium 90	232 Th thorium 90	232 Th thorium 90
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