

1 H hydrogen 1																	2 He helium 4
3 Li lithium 7	4 Be beryllium 9											5 B boron 11	6 C carbon 12	7 N nitrogen 14	8 O oxygen 16	9 F fluorine 19	10 Ne neon 20
11 Na sodium 23	12 Mg magnesium 24											13 Al aluminium 27	14 Si silicon 28	15 P phosphorus 31	16 S sulphur 32	17 Cl chlorine 35.5	18 Ar argon 40
19 K potassium 39	20 Ca calcium 40	21 Sc scandium 45	22 Ti titanium 48	23 V vanadium 51	24 Cr chromium 52	25 Mn manganese 55	26 Fe iron 55.8	27 Co cobalt 59	28 Ni nickel 58.7	29 Cu copper 63.5	30 Zn zinc 65.4	31 Ga gallium 69.7	32 Ge germanium 72.6	33 As arsenic 75	34 Se selenium 79	35 Br bromine 80	36 Kr krypton 83.8
37 Rb rubidium 85.5	38 Sr strontium 87.6	39 Y yttrium 89	40 Zr zirconium 91.2	41 Nb niobium 93	42 Mo molybdenum 96	43 Tc technetium 98	44 Ru ruthenium 101	45 Rh rhodium 103	46 Pd palladium 106.4	47 Ag silver 107.9	48 Cd cadmium 112.4	49 In indium 114.8	50 Sn tin 118.7	51 Sb antimony 121.8	52 Te tellurium 127.6	53 I iodine 127	54 Xe xenon 131.3
55 Cs caesium 133	56 Ba barium 137.3	57 La lanthanum 138.9	72 Hf hafnium 178.5	73 Ta tantalum 181	74 W tungsten 183.8	75 Re rhenium 186.2	76 Os osmium 190.2	77 Ir iridium 192.2	78 Pt platinum 195	79 Au gold 197	80 Hg mercury 200.6	81 Tl thallium 204.4	82 Pb lead 207.2	83 Bi bismuth 209	84 Po polonium 209	85 At astatine 210	86 Rn radon 222
87 Fr francium 223	88 Ra radium 226	89 Ac actinium 227	104 Rf rutherfordium 261	105 Db dubnium 262	106 Sg seaborgium 269	107 Bh bohrium 264	108 Hs hassium 269	109 Mt meitnerium 278	110 Ds darmstadtium 281	111 Rg roentgenium 282	112 Cn copernicium 285	113 Nh nihonium 286	114 Fl flerovium 289	115 Mc moscovium 289	116 Lv livermorium 293	117 Ts tennessine 294	118 Og oganeson 294
		58 Ce cerium 140.1	59 Pr praseodymium 141	60 Nd neodymium 144.2	61 Pm promethium 145	62 Sm samarium 150.4	63 Eu europium 152	64 Gd gadolinium 157.25	65 Tb terbium 159	66 Dy dysprosium 162.5	67 Ho holmium 165	68 Er erbium 167.3	69 Tm thulium 169	70 Yb ytterbium 173	71 Lu lutetium 175		
		90 Th thorium 232	91 Pa protactinium 231	92 U uranium 238	93 Np neptunium 237	94 Pu plutonium 244	95 Am americium 243	96 Cm curium 247	97 Bk berkelium 247	98 Cf californium 251	99 Es einsteinium 252	100 Fm fermium 257	101 Md mendelevium 258	102 No nobelium 259	103 Lr lawrencium 262		

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