

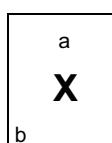
The Periodic Table of the Elements

Group																		
I	II											III	IV	V	VI	VII	0	
7 Li Lithium 3	9 Be Beryllium 4											1 H Hydrogen 1					4 He Helium 2	
23 Na Sodium 11	24 Mg Magnesium 12												11 B Boron 5	12 C Carbon 6	14 N Nitrogen 7	16 O Oxygen 8	19 F Fluorine 9	20 Ne Neon 10
39 K Potassium 19	40 Ca Calcium 20	45 Sc Scandium 21	48 Ti Titanium 22	51 V Vanadium 23	52 Cr Chromium 24	55 Mn Manganese 25	56 Fe Iron 26	59 Co Cobalt 27	59 Ni Nickel 28	64 Cu Copper 29	65 Zn Zinc 30	70 Ga Gallium 31	73 Ge Germanium 32	75 As Arsenic 33	79 Se Selenium 34	80 Br Bromine 35	84 Kr Krypton 36	
85 Rb Rubidium 37	88 Sr Strontium 38	89 Y Yttrium 39	91 Zr Zirconium 40	93 Nb Niobium 41	96 Mo Molybdenum 42	101 Tc Technetium 43	103 Ru Ruthenium 44	106 Rh Rhodium 45	108 Pd Palladium 46	112 Ag Silver 47	115 Cd Cadmium 48	119 In Indium 49	122 Sn Tin 50	128 Sb Antimony 51	127 Te Tellurium 52	131 I Iodine 53	131 Xe Xenon 54	
133 Cs Caesium 55	137 Ba Barium 56	139 La Lanthanum 57	178 Hf Hafnium 72	181 Ta Tantalum 73	184 W Tungsten 74	186 Re Rhenium 75	190 Os Osmium 76	192 Ir Iridium 77	195 Pt Platinum 78	197 Au Gold 79	201 Hg Mercury 80	204 Tl Thallium 81	207 Pb Lead 82	209 Bi Bismuth 83	209 Po Polonium 84	At Astatine 85	Rn Radon 86	
Fr Francium 87	Ra Radium 88	Ac actinium 89	†															

*58-71 Lanthanoid series

†90-103 Actinoid series

Key



a = relative atomic mass
X = atomic symbol
b = proton (atomic) number

140 Ce Cerium 58	141 Pr Praseodymium 59	144 Nd Neodymium 60	Pm	150 Sm Samarium 61	152 Eu Europium 62	157 Gd Gadolinium 63	159 Tb Terbium 64	163 Dy Dysprosium 65	165 Ho Holmium 66	167 Er Erbium 67	169 Tm Thulium 68	173 Yb Ytterbium 69	175 Lu Lutetium 71
232 Th Thorium 90	Pa Protactinium 91	238 U Uranium 92	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	No	Lr

The volume of one mole of any gas is 24 dm³ at room temperature and pressure (r.t.p.).