

# The Periodic Table of Elements

I	II											III	IV	V	VI	VII	0	
1.0 <b>H</b> hydrogen 1																	4.0 <b>He</b> helium 2	
6.9 <b>Li</b> lithium 3	9.0 <b>Be</b> beryllium 4												10.8 <b>B</b> boron 5	12.0 <b>C</b> carbon 6	14.0 <b>N</b> nitrogen 7	16.0 <b>O</b> oxygen 8	19.0 <b>F</b> fluorine 9	20.2 <b>Ne</b> neon 10
23.0 <b>Na</b> sodium 11	24.3 <b>Mg</b> magnesium 12												27.0 <b>Al</b> aluminium 13	28.1 <b>Si</b> silicon 14	31.0 <b>P</b> phosphorus 15	32.1 <b>S</b> sulphur 16	35.5 <b>Cl</b> chlorine 17	39.9 <b>Ar</b> argon 18
39.1 <b>K</b> potassium 19	40.1 <b>Ca</b> calcium 20	45.0 <b>Sc</b> scandium 21	47.9 <b>Ti</b> titanium 22	50.9 <b>V</b> vanadium 23	52.0 <b>Cr</b> chromium 24	54.9 <b>Mn</b> manganese 25	55.8 <b>Fe</b> iron 26	58.9 <b>Co</b> cobalt 27	58.7 <b>Ni</b> nickel 28	63.5 <b>Cu</b> copper 29	65.4 <b>Zn</b> zinc 30	69.7 <b>Ga</b> gallium 31	72.6 <b>Ge</b> germanium 32	74.9 <b>As</b> arsenic 33	79.0 <b>Se</b> selenium 34	79.9 <b>Br</b> bromine 35	83.8 <b>Kr</b> krypton 36	
85.5 <b>Rb</b> rubidium 37	87.6 <b>Sr</b> strontium 38	88.9 <b>Y</b> yttrium 39	91.2 <b>Zr</b> zirconium 40	92.9 <b>Nb</b> niobium 41	95.9 <b>Mo</b> molybdenum 42	98.9 <b>Tc</b> technetium 43	101.1 <b>Ru</b> ruthenium 44	102.9 <b>Rh</b> rhodium 45	106.4 <b>Pd</b> palladium 46	107.9 <b>Ag</b> silver 47	112.4 <b>Cd</b> cadmium 48	114.8 <b>In</b> indium 49	118.7 <b>Sn</b> tin 50	121.8 <b>Sb</b> antimony 51	127.6 <b>Te</b> tellurium 52	126.9 <b>I</b> iodine 53	131.3 <b>Xe</b> xenon 54	
132.9 <b>Cs</b> caesium 55	137.3 <b>Ba</b> barium 56	138.9 <b>La</b> lanthanum 57	178.5 <b>Hf</b> hafnium 72	180.9 <b>Ta</b> tantalum 73	183.9 <b>W</b> tungsten 74	186.2 <b>Re</b> rhenium 75	190.2 <b>Os</b> osmium 76	192.2 <b>Ir</b> iridium 77	195.1 <b>Pt</b> platinum 78	197.0 <b>Au</b> gold 79	200.6 <b>Hg</b> mercury 80	204.4 <b>Tl</b> thallium 81	207.2 <b>Pb</b> lead 82	209.0 <b>Bi</b> bismuth 83	210.0 <b>Po</b> polonium 84	210.0 <b>At</b> astatine 85	222.0 <b>Rn</b> radon 86	
223.0 <b>Fr</b> francium 87	226.0 <b>Ra</b> radium 88	227.0 <b>Ac</b> actinium 89																

## Key

relative atomic mass ———— 6.9  
atomic number ———— 3

6.9 <b>Li</b> lithium
3

❶ 58 – 71 Lanthanum series

❷ 90 – 103 Actinium series

140.1 <b>Ce</b> cerium 58	140.9 <b>Pr</b> praseodymium 59	144.2 <b>Nd</b> neodymium 60	144.9 <b>Pm</b> promethium 61	150.4 <b>Sm</b> samarium 62	152.0 <b>Eu</b> europium 63	157.3 <b>Gd</b> gadolinium 64	158.9 <b>Tb</b> terbium 65	162.5 <b>Dy</b> dysprosium 66	164.9 <b>Ho</b> holmium 67	167.3 <b>Er</b> erbium 68	168.9 <b>Tm</b> thulium 69	173.0 <b>Yb</b> ytterbium 70	175.0 <b>Lu</b> lutetium 71
232.0 <b>Th</b> thorium 90	231.0 <b>Pa</b> protoactinium 91	238.0 <b>U</b> uranium 92	237.0 <b>Np</b> neptunium 93	239.1 <b>Pu</b> plutonium 94	243.1 <b>Am</b> americium 95	247.1 <b>Cm</b> curium 96	247.1 <b>Bk</b> berkelium 97	252.1 <b>Cf</b> californium 98	(252) <b>Es</b> einsteinium 99	(257) <b>Fm</b> fermium 100	(258) <b>Md</b> mendelevium 101	(259) <b>No</b> nobelium 102	(260) <b>Lr</b> lawrencium 103