

The Periodic Table of Elements

I	II	Group										III	IV	V	VI	VII	0	
3 Li lithium 7	4 Be beryllium 9											1 H hydrogen 1						2 He helium 4
11 Na sodium 23	12 Mg magnesium 24											5 B boron 11	6 C carbon 12	7 N nitrogen 14	8 O oxygen 16	9 Gas F fluorine 19	10 Ne neon 20	
19 K potassium 39	20 Ca calcium 40											13 Al aluminium 27	14 Si silicon 28	15 P phosphorus 31	16 S sulfur 32	17 Gas Cl chlorine 35.5	18 Ar argon 40	
37 Rb rubidium 85	38 Sr strontium 88											31 Ga gallium 70	32 Ge germanium 73	33 As arsenic 75	34 Se selenium 79	35 Liquid Br bromine 80	36 Kr krypton 84	
55 Cs caesium 133	56 Ba barium 137											49 In indium 115	50 Sn tin 119	51 Sb antimony 122	52 Te tellurium 128	53 Solid I iodine 127	54 Xe xenon 131	
87 Fr francium –	88 Ra radium –											47 Rh rhodium 103	46 Pd palladium 106	48 Cd cadmium 112	49 Ag silver 108	50 Cd cadmium 112	51 Te tellurium 128	
lanthanoids		57 La lanthanum 139	58 Ce cerium 140	59 Pr praseodymium 141	60 Nd neodymium 144	61 Pm promethium –	62 Sm samarium 150	63 Eu europium 152	64 Gd gadolinium 157	65 Tb terbium 159	66 Dy dysprosium 163	67 Ho holmium 165	68 Er erbium 167	69 Tm thulium 169	70 Yb ytterbium 173	71 Lu lutetium 175		
actinoids		89 Ac actinium –	90 Th thorium 232	91 Pa protactinium 231	92 U uranium 238	93 Np neptunium –	94 Pu plutonium –	95 Am americium –	96 Cm curium –	97 Bk berkelium –	98 Cf californium –	99 Es einsteinium –	100 Fm fermium –	101 Md mendelevium –	102 No nobelium –	103 Lr lawrencium –		

The volume of one mole of any gas is 24 dm^3 at room temperature and pressure (r.t.p.).

■ Alkali Metals - Soft and low density metals. Low melting and boiling points compared to other metals. Highly reactive. Reactivity increases down the group. Melting and boiling points decrease down the group.

■ Halogens - Reactivity decreases down the group. Melting and boiling points increase down the group. Colour darkens down the group. Diatomic molecules.

■ Noble Gas - Monoatomic. Unreactive as they have full valence shells. Helium has a stable duplet structure while the rest have a stable octet structure. They do not lose, gain or share electrons.

■ Metalloids - Elements with properties of both metals and non-metals.

— Diatomic Particles

— Elements on the left are metals
Elements on the right are non-metals

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