

PERIODIC TABLE

															He 2 Helium 2 4.00260											
H 1 Hydrogen 1 1.00794												B 5 Boron 2·3 10.18	C 6 Carbon 2·4 12.011	N 7 Nitrogen 2·5 14.0067	O 8 Oxygen 2·6 15.9994	F 9 Fluorine 2·7 18.998403	Ne 10 Neon 2·8 20.179									
Li 3 Lithium 2·1 6.941	Be 4 Beryllium 2·2 9.01218											Al 13 Aluminum 2·8·3 26.98154	Si 14 Silicon 2·8·4 28.0855	P 15 Phosphorus 2·8·5 30.97376	S 16 Sulfur 2·8·6 32.06	Cl 17 Chlorine 2·8·7 35.453	Ar 18 Argon 2·8·8 39.948									
Na 11 Sodium 2·8·1 22.98977	Mg 12 Magnesium 2·8·2 24.305	Sc 21 Scandium 2·8·9·2 44.9559	Ti 22 Titanium 2·8·10·2 47.88	V 23 Vanadium 2·8·11·2 50.9415	Cr 24 Chromium 2·8·13·1 51.996	Mn 25 Manganese 2·8·13·2 54.9380	Fe 26 Iron 2·8·14·2 55.847	Co 27 Cobalt 2·8·15·2 58.9332	Ni 28 Nickel 2·8·16·2 58.69	Cu 29 Copper 2·8·18·1 63.546	Zn 30 Zinc 2·8·18·2 65.38	Ga 31 Gallium 2·8·18·3 69.72	Ge 32 Germanium 2·8·18·4 72.59	As 33 Arsenic 2·8·18·5 74.9216	Se 34 Selenium 2·8·18·6 78.96	Br 35 Bromine 2·8·18·7 79.904	Kr 36 Krypton 2·8·18·8 83.80									
K 19 Potassium 2·8·8·1 39.0983	Ca 20 Calcium 2·8·8·2 40.08	Y 39 Yttrium 2·8·18 9·2 88.9059	Zr 40 Zirconium 2·8 18·10·2 91.22	Nb 41 Niobium 2·8 18·12·1 92.9064	Mo 42 Molybdenum 2·8 18·13·1 95.94	Tc 43 Technetium 2·8 18·13·2 (98)	Ru 44 Ruthenium 2·8 18·15·1 101.07	Rh 45 Rhodium 2·8 18·16·1 102.9055	Pd 46 Palladium 2·8 18·18·0 106.42	Ag 47 Silver 2·8 18·18·1 107.8682	Cd 48 Cadmium 2·8 18·18·2 112.41	In 49 Indium 2·8·1 8·18·3 114.82	Sn 50 Tin 2·8 18·18·4 118.69	Sb 51 Antimony 2·8 18·18·5 121.75	Te 52 Tellurium 2·8·18· 18·6 127.60	I 53 Iodine 2·8·18· 18·7 126.9045	Xe 54 Xenon 2·8·18· 18·8 131.29									
Rb 37 Rubidium 2·8·18·8·1 85.4678	Sr 38 Strontium 2·8 18·8·2 87.62											Hf 72 Hafnium 2·8·18 32·10·2 178.49	Ta 73 Tantalum 2·8·18 32·11·2 180.9479	W 74 Tungsten 2·8·18 32·12·2 183.85	Re 75 Rhenium 2·8·18 32·13·2 186.207	Os 76 Osmium 2·8·18 32·14·2 190.2	Ir 77 Iridium 2·8·18 32·15·2 192.2	Pt 78 Platinum 2·8·18 32·16·2 195.08	Au 79 Gold 2·8·18 32·18·1 196.9665	Hg 80 Mercury 2·8·18 32·18·2 200.59	Tl 81 Thallium 2·8·18 32·18·3 204.383	Pb 82 Lead 2·8·18 32·18·4 207.2	Bi 83 Bismuth 2·8·18· 32·18·5 208.9804	Po 84 Polonium 2·8·18 32·18·6 (209)	At 85 Astatine 2·8·18· 32·18·7 (210)	Rn 86 Radon 2·8·18· 32·18·8 (222)
Cs 55 Cesium 2·8·18 18·8·1 132.9054	Ba 56 Barium 2·8·18 18·8·2 137.33											Unq 104 Unnilquadium 2·8·18·32 32·10·2 (261)	Unp 105 Unnilpentium 2·8·18·32 32·11·2 (262)	Unh 106 Unnilhexium 2·8·18·32 32·12·2 (263)	Uns 107 Unnilseptium 2·8·18·32 32·13·2 (262)											Une 109 Unnilennium 2·8·18·32 32·15·2 (266)
Fr 87 Francium 2·8·18 32·18·8·1 (223)	Ra 88 Radium 2·8·18 32·18·8·2 226.0254																									

Alkali metals	La 57 Lanthanum 2·8·18· 18·9·2 138.9055	Ce 58 Cerium 2·8·18 20·8·2 140.12	Pr 59 Praseodymium 2·8·18 21·8·2 140.9077	Nd 60 Neodymium 2·8·18 22·8·2 144.24	Pm 61 Promethium 2·8·18 23·8·2 (145)	Sm 62 Samarium 2·8·18 24·8·2 150.36	Eu 63 Europium 2·8·18 25·8·2 151.96	Gd 64 Gadolinium 2·8·18 25·9·2 157.25	Tb 65 Terbium 2·8·18 27·8·2 158.9254	Dy 66 Dysprosium 2·8·18 28·8·2 162.50	Ho 67 Holmium 2·8·18 29·8·2 164.9304	Er 68 Erbium 2·8·18 30·8·2 167.26	Tm 69 Thulium 2·8·18 31·8·2 168.9342	Yb 70 Ytterbium 2·8·18 32·8·2 173.04	Lu 71 Lutetium 2·8·18 32·9·2 174.967
Alkaline earth metals															
Transition metals	Ac 89 Actinium 2·8·18·32 18·9·2 227.0278	Th 90 Thorium 2·8·18·32 18·10·2 232.0381	Pa 91 Protactinium 2·8·18·32 20·9·2 231.0359	U 92 Uranium 2·8·18·32 21·9·2 238.0289	Np 93 Neptunium 2·8·18·32 22·9·2 237.0482	Pu 94 Plutonium 2·8·18·32 24·8·2 (244)	Am 95 Americium 2·8·18·32 25·8·2 (243)	Cm 96 Curium 2·8·18·32 25·9·2 (247)	Bk 97 Berkelium 2·8·18·32 27·8·2 (247)	Cf 98 Californium 2·8·18·32 28·8·2 (252)	Es 99 Einsteinium 2·8·18·32 29·8·2 (254)	Fm 100 Fermium 2·8·18·32 30·8·2 (257)	Md 101 Mendelevium 2·8·18·32 31·8·2 (258)	No 102 Nobelium 2·8·18·32 32·8·2 (259)	Lr 103 Lawrencium 2·8·18·32 32·9·2 (260)
Lanthanide series															
Actinide series															
Other metals															
Nonmetals															
Noble Gases															

PERIODIC TABLE

																		He	
H														B	C	N	O	F	Ne
Li	Be											Al	Si	P	S	Cl	Ar		
Na	Mg	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr		
K	Ca	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Sb	Te	I	Xe		
Rb	Sr			Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rh	
Cs	Ba			Unq‡	Unp§	Unh	Uns				Une								

	Alkali metals
	Alkaline earth metals
	Transition metals
	Lanthanide series
	Actinide series
	Other metals
	Nonmetals
	Noble Gases

La	Ce	Pr	Nd	Pm	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu
Ac	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	No	Lr

‡ Other proposed names are kurchatovium (URRS) and hahnium (U.S.).
 § Other proposed names are nielsbohrium (USSR) and rutherfordium (u.S.).