

Nelson Chemistry Alberta 20-30 Periodic Table of the Elements

1 1A	2 IIA	3 IIIA	4 IVA	5 VA	6 VIA	7 VIIA	8 VIIIA
1 H hydrogen 1.01	2 He helium 4.00	3 Li lithium 6.94	4 Be beryllium 9.01	5 B boron 10.81	6 C carbon 12.01	7 N nitrogen 14.01	8 O oxygen 16.00
9 F fluorine 19.00	10 Ne neon 20.18	11 Na sodium 22.99	12 Mg magnesium 24.31	13 Al aluminum 26.98	14 Si silicon 28.09	15 P phosphorus 30.97	16 S sulfur 32.07
17 Cl chlorine 35.45	18 Ar argon 39.95	19 K potassium 39.10	20 Ca calcium 40.08	21 Sc scandium 44.96	22 Ti titanium 47.87	23 V vanadium 50.94	24 Cr chromium 52.00
25 Mn manganese 54.94	26 Fe iron 55.85	27 Co cobalt 58.93	28 Ni nickel 58.69	29 Cu copper 63.55	30 Zn zinc 65.41	31 Ga gallium 69.72	32 Ge germanium 72.64
33 As arsenic 74.92	34 Se selenium 78.96	35 Br bromine 79.90	36 Kr krypton 83.80	37 Rb rubidium 85.47	38 Sr strontium 87.62	39 Y yttrium 88.91	40 Zr zirconium 91.22
41 Nb niobium 92.91	42 Mo molybdenum 95.94	43 Tc technetium (98)	44 Ru ruthenium 101.07	45 Rh rhodium 102.91	46 Pd palladium 106.42	47 Ag silver 107.87	48 Cd cadmium 112.41
49 In indium 114.82	50 Sn tin 118.71	51 Sb antimony 121.76	52 Te tellurium 127.60	53 I iodine 126.90	54 Xe xenon 131.29	55 Cs cesium 132.91	56 Ba barium 137.33
57 La lanthanum 138.91	58 Ce cerium 140.12	59 Pr praseodymium 140.91	60 Nd neodymium 144.24	61 Pm promethium (145)	62 Sm samarium 150.36	63 Eu europium 151.96	64 Gd gadolinium 157.25
65 Tb terbium 158.93	66 Dy dysprosium 162.50	67 Ho holmium 164.93	68 Er erbium 167.26	69 Tm thulium 168.93	70 Yb ytterbium 173.04	71 Lu lutetium 174.97	72 Hf hafnium 178.49
73 Ta tantalum 180.95	74 W tungsten 183.84	75 Re rhenium 186.21	76 Os osmium 190.23	77 Ir iridium 192.22	78 Pt platinum 195.08	79 Au gold 196.97	80 Hg mercury 200.59
81 Tl thallium 204.38	82 Pb lead 207.2	83 Bi bismuth 208.98	84 Po polonium (209)	85 At astatine (210)	86 Rn radon (222)	87 Fr francium (223)	88 Ra radium (226)
89 Ac actinium (227)	90 Th thorium 232.04	91 Pa protactinium 231.04	92 U uranium 238.03	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)	104 Rf rutherfordium (261)
105 Db dubnium (262)	106 Sg seaborgium (266)	107 Bh bohrium (264)	108 Hs hassium (277)	109 Mt meitnerium (268)	110 Ds darmstadtium (281)	111 Rg roentgenium (272)	112 Uub ununbium (272)
113 Uut ununtrium (272)	114 Uuq ununquadium (272)	115 Uup ununpentium (272)	116 Uuh ununhexium (272)	117 Uus ununseptium (272)	118 Uuo ununoctium (272)	119 Uuoh ununnonium (272)	120 Uuuh unundecium (272)

Table of Common Polyatomic Ions

acetate (ethanoate)	CH ₃ COO ⁻	chromate	CrO ₄ ²⁻	phosphate	PO ₄ ³⁻
ammonium	NH ₄ ⁺	dichromate	Cr ₂ O ₇ ²⁻	hydrogen phosphate	HPO ₄ ²⁻
benzoate	C ₆ H ₅ COO ⁻	cyanide	CN ⁻	hydrogen phosphite	H ₂ PO ₃ ⁻
borate	BO ₃ ³⁻	hydroxide	OH ⁻	silicate	SiO ₄ ²⁻
carbate	C ₂ ²⁻	iodide	I ₂	sulfate	SO ₄ ²⁻
carbonate	CO ₃ ²⁻	nitrate	NO ₃ ⁻	hydrogen sulfate	HSO ₄ ⁻
hydrogen carbonate	CO ₃ ²⁻	nitrite	NO ₂ ⁻	sulfite	SO ₃ ²⁻
perchlorate	ClO ₄ ⁻	oxalate	OOC-COO ²⁻	hydrogen sulfite	HSO ₃ ⁻
chlorate	ClO ₃ ⁻	hydrogen oxalate	HOOC-COO ⁻	hydrogen sulfide	HS ⁻
chlorite	ClO ₂ ⁻	permanganate	MnO ₄ ⁻	thiocyanate	SCN ⁻
hypochlorite	OCl ⁻ or ClO ⁻	peroxide	O ₂ ²⁻	thiosulfate	S ₂ O ₃ ²⁻

Key

atomic number → 26
 electronegativity → 1.8
 most common ion charge → 3+
 other ion charge → 2+
 symbol of element → Fe
 (solids in black,
 liquids in blue,
 gases in red)

iron
 55.85
 name of element

atomic mass (u)—based on C-12
 atomic molar mass (g/mol)
 ()—mass number of most stable isotope

- Metals
- Semi-metals
- Nonmetals
- Noble Gases
- Hydrogen