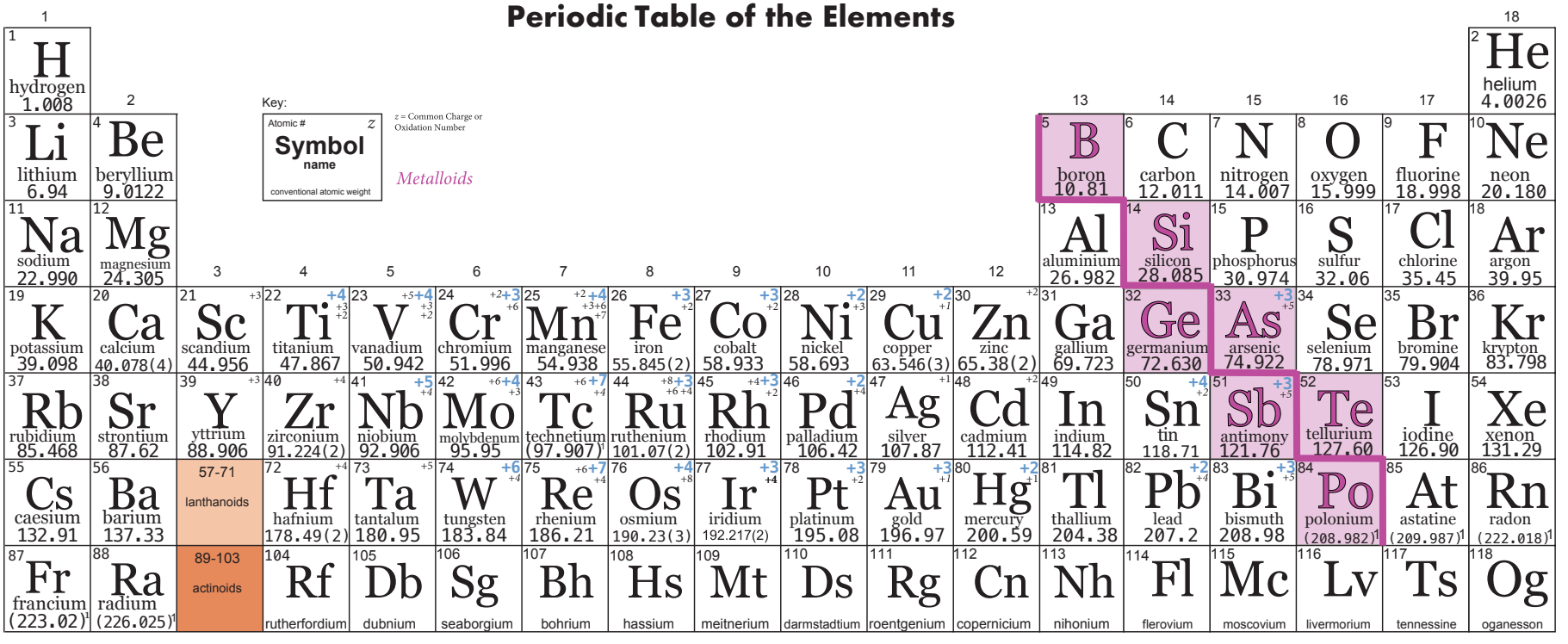
Periodic Table of the Elements



Lanthanoids (La to Lu) is preferred over lanthanide, and although lanthanoid means 'like lanthanum' and so should not include lanthanum, lanthanum has become included by common usage. Actinoids include Ac to Lr[3]

57 La lanthanum 138.91	58 Ce cerium 140.12	59 Pr praseodymium 140.91	60 Nd neodymium 144.24	61 Pm promethium (144.913[1])	62 Sm samarium 150.36(2)	63 Eu europium 151.96	64 Gd gadolinium 157.25(3)	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 173.05	71 Lu lutetium 174.97
89 Ac actinium (227.028[1])	90 Th thorium 232.04	91 Pa protactinium 231.04	92 U uranium 238.03	93 Np neptunium (237.048[1])	94 Pu plutonium (244.064[1])	95 Am americium (243.061[1])	96 Cm curium (247.07[1])	97 Bk berkelium (247.07[1])	98 Cf californium (251.08[1])	99 Es einsteinium (252.083[1])	100 Fm fermium (257.095[1])	101 Md mendelevium (258.098[1])	102 No nobelium (259.101[1])	103 Lr lawrencium (261g.107[1])

1. Elements lack isotopes with characteristics isotopic abundance in natural terrestrial samples. Data gathered from PubChem. https://pubchem.ncbi.nlm.nih.gov/
2. Charge and/or oxidation number for common multivalent atoms. http:// www.chymist.com/Formulas.pdf
3. IUPAC Periodic Table Note 6. https://iupac.org/what-we-do/periodic-table-of- elements/

For notes and updates to original table, see www.iupac.org. This version is dated 1 December 2018.

Notes: Modified by C.Kleier | SimplyChemistry™ |Fall 2019 Removed Standard Atomic Mass Range, added common oxidation states/charges including the oxidation states of transition metals, and identified metalloids. Numbers in () represents the range of atomic mass in the last unit. Those numbers colored **BLUE and BOLD** *are the most common ion*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ydroge