

PERIODIC TABLE OF THE ELEMENTS (118 CONFIRMED ELEMENTS)

Standard 18-Group, 7-Period Layout | Organized by Atomic Number, Electron Configuration, & Chemical Properties

Periods	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	1 H Hydrogen																	2 He Noble
2	3 Li Lithium	4 Be Beryllium											5 B Boron	6 C Carbon	7 N Nitrogen	8 O Oxygen	9 F Fluorine	10 Ne Neon
3	11 Na Sodium	12 Mg Magnesium											13 Al Aluminum	14 Si Silicon	15 P Phosphorus	16 S Sulfur	17 Cl Chlorine	18 Ar Argon
4	19 K Potassium	20 Ca Calcium	21 Sc Scandium	22 Ti Titanium	23 V Vanadium	24 Cr Chromium	25 Mn Manganese	26 Fe Iron	27 Co Cobalt	28 Ni Nickel	29 Cu Copper	30 Zn Zinc	31 Ga Gallium	32 Ge Germanium	33 As Arsenic	34 Se Selenium	35 Br Bromine	36 Kr Krypton
5	37 Rb Rubidium	38 Sr Strontium	39 Y Yttrium	40 Zr Zirconium	41 Nb Niobium	42 Mo Molybdenum	43 Tc Technetium	44 Ru Ruthenium	45 Rh Rhodium	46 Pd Palladium	47 Ag Silver	48 Cd Cadmium	49 In Indium	50 Sn Tin	51 Sb Antimony	52 Te Tellurium	53 I Iodine	54 Xe Xenon
6	55 Cs Cesium	56 Ba Barium	57-71 La-Lu Lanthanides	72 Hf Hafnium	73 Ta Tantalum	74 W Tungsten	75 Re Rhenium	76 Os Osmium	77 Ir Iridium	78 Pt Platinum	79 Au Gold	80 Hg Mercury	81 Tl Thallium	82 Pb Lead	83 Bi Bismuth	84 Po Polonium	85 At Astatine	86 Rn Radon
7	87 Fr Francium	88 Ra Radium	89-103 Ac-Lr Actinides	104 Rf Rutherfordium	105 Db Dubnium	106 Sg Seaborgium	107 Bh Bohrium	108 Hs Hassium	109 Mt Meitnerium	110 Ds Darmstadtium	111 Rg Roentgenium	112 Cn Copernicium	113 Nh Nihonium	114 Fl Flerovium	115 Mc Moscovium	116 Lv Livermorium	117 Ts Tennessine	118 Og Oganesson
	Lanthanides Actinides																	
	57 La Lanthanum	58 Ce Cerium	59 Pr Praseodymium	60 Nd Neodymium	61 Pm Promethium	62 Sm Samarium	63 Eu Europium	64 Gd Gadolinium	65 Tb Terbium	66 Dy Dysprosium	67 Er Erbium	68 Tm Thulium	69 Yb Ytterbium	70 Lu Lutetium				
	89 Ac Actinium	90 Th Thorium	91 Pa Protactinium	92 U Uranium	93 Np Neptunium	94 Pu Plutonium	95 Am Americium	96 Cm Curium	97 Bk Berkelium	98 Cf Californium	99 Fm Fermium	100 Md Mendelevium	101 No Nobelium	102 Lr Lawrencium				

Mastering the Elements. Engineering the Space.



Industrial Laboratory Solutions for Every Group & Period

From Alkali Metals to Noble Gases: We Build for Every Element

Every industrial application—whether testing volatile halogens, synthesizing transition metal catalysts, or analyzing complex organic compounds—demands unique spatial engineering. At Metrolabs, we design and install infrastructure tailored to the specific chemical properties of the 118 elements you work with daily.

- **Corrosive & Reactive Environments:** Specialized storage and work surfaces engineered to withstand the demanding chemistry of Halogens, Alkali Metals, and strong acids.
- **Heavy Element Research:** High-capacity, vibration-dampening instrumentation tables designed specifically for mass spectrometry and analytical testing of heavy Transition Metals.
- **Inert Gas Integration:** Pre-engineered utility lines and gas manifolds tailored for the seamless integration of Noble Gases like Helium and Argon into your GC-MS and ICP systems.

Infrastructure Mapped to the Periodic Table

Industrial Laboratory Solutions for Every Group & Period

Elemental Focus	Industrial Challenge	Metrolabs Engineered Solution
Alkali & Alkaline Earth Metals (e.g., Li, Na, Mg)	High reactivity, moisture sensitivity, and specific thermal risks.	Customized dry-storage spaces and specialized isolation setups.
Transition Metals (e.g., Ti, Cr, Fe, Ni, Cu)	Heavy analytical instrumentation, high-temperature testing, and catalyst processing.	Heavy-duty steel work tables, vibration-dampening platforms, and high-temperature resistant worktops.
Halogens & Nonmetals (e.g., Cl, Br, I, F)	Highly corrosive vapors, toxic fumes, and aggressive chemical interactions.	Advanced aerodynamic fume hoods with chemical-resistant liners and robust exhaust ducting.
Noble Gases (e.g., He, Ar, Ne)	Consistent pressure delivery for precise analytical testing.	Integrated service islands with dedicated gas distribution lines and safety valves.

