

Atomic Number	Name	Symbol	Category	Location in Table	Where it can be found
1	Hydrogen	H	Nonmetal	Group 1, Period 1	Used in fuel cells, rocket fuel, and ammonia production and Stars, water, organic compounds
2	Helium	He	Noble Gas	Group 18, Period 1	Cryogenics, balloons, protective gas in welding and Natural gas deposits, radioactive decay
3	Lithium	Li	Alkali Metal	Group 1, Period 2	Rechargeable batteries, mood-stabilizing drugs and Minerals like spodumene and lepidolite
4	Beryllium	Be	Alkaline Earth Metal	Group 2, Period 2	X-ray windows, aerospace materials and Minerals such as Emeralds
5	Boron	B	Metalloid	Group 13, Period 2	Glass production, detergents, fertilizer and Borates in Earth's crust
6	Carbon	C	Post-transition Metal	Group 7, Period 1	Graphite
7	Nitrogen	N	Lanthanide	Group 8, Period 1	Oil and Gas Industry
8	Oxygen	O	Actinide	Group 9, Period 1	Air
9	Fluorine	F	Halogen	Group 10, Period 1	Toothpaste
10	Neon	Ne	Nonmetal	Group 11, Period 1	Signboards
11	Sodium	Na	Noble Gas	Group 12, Period 1	Salt
12	Magnesium	Mg	Alkali Metal	Group 13, Period 1	Chlorophyll
13	Aluminum	Al	Alkaline Earth Metal	Group 14, Period 1	Airplanes
14	Silicon	Si	Metalloid	Group 15, Period 1	Electronics
15	Phosphorus	P	Transition Metal	Group 16, Period 1	Matches
16	Sulfur	S	Post-transition Metal	Group 17, Period 1	Volcano Crater
17	Chlorine	Cl	Lanthanide	Group 18, Period 1	Bleach
18	Argon	Ar	Actinide	Group 1, Period 1	Fire extinguisher
19	Potassium	K	Halogen	Group 2, Period 2	Fruites and Vegeiables
20	Calcium	Ca	Nonmetal	Group 3, Period 2	Seashells

21	Scandium	Sc	Noble Gas	Group 4, Period 2	Bicycles
22	Titanium	Ti	Alkali Metal	Group 5, Period 2	Shipbuilding
23	Vanadium	V	Alkaline Earth Metal	Group 6, Period 2	Springs
24	Chromium	Cr	Metalloid	Group 7, Period 2	Stainless Steel
25	Manganese	Mn	Transition Metal	Group 8, Period 2	Nuts
26	Iron	Fe	Post-transition Metal	Group 9, Period 2	Steel Structures
27	Cobalt	Co	Lanthanide	Group 10, Period 2	Magnets
28	Nickel	Ni	Actinide	Group 11, Period 2	Coins
29	Copper	Cu	Halogen	Group 12, Period 2	Cables and Wires
30	Zinc	Zn	Nonmetal	Group 13, Period 2	Printing
31	Gallium	Ga	Noble Gas	Group 14, Period 2	LED (Light Emitting Diode)
32	Germanium	Ge	Alkali Metal	Group 15, Period 2	Semiconductor Electronics
33	Arsenic	As	Alkaline Earth Metal	Group 16, Period 2	Poison
34	Selenium	Se	Metalloid	Group 17, Period 2	Copy Machine
35	Bromine	Br	Transition Metal	Group 18, Period 2	Photography Film
36	Krypton	Kr	Post-transition Metal	Group 1, Period 2	Laser Eye Surgery
37	Rubidium	Rb	Lanthanide	Group 2, Period 3	Global Navigation
38	Strontium	Sr	Actinide	Group 3, Period 3	Fireworks
39	Yttrium	Y	Halogen	Group 4, Period 3	Color Television
40	Zirconium	Zr	Nonmetal	Group 5, Period 3	Dental Prosthesis
41	Niobium	Nb	Noble Gas	Group 6, Period 3	Nuclear Reactor
42	Molybdenum	Mo	Alkali Metal	Group 7, Period 3	X-Ray Technology
43	Technetium	Tc	Alkaline Earth Metal	Group 8, Period 3	Nuclear Medicine

44	Ruthenium	Ru	Metalloid	Group 9, Period 3	Electric Switches
45	Rhodium	Rh	Transition Metal	Group 10, Period 3	Jewelry
46	Palladium	Pd	Post-transition Metal	Group 11, Period 3	Medical Tools
47	Silver	Ag	Lanthanide	Group 12, Period 3	Jewelry
48	Cadmium	Cd	Actinide	Group 13, Period 3	Paint
49	Indium	In	Halogen	Group 14, Period 3	LCD (Liquid Crystal Display)
50	Tin	Sn	Nonmetal	Group 15, Period 3	Cans
51	Antimony	Sb	Noble Gas	Group 16, Period 3	Car Battery
52	Tellurium	Te	Alkali Metal	Group 17, Period 3	Rubber
53	Iodine	I	Alkaline Earth Metal	Group 18, Period 3	Disinfectant
54	Xenon	Xe	Metalloid	Group 1, Period 3	High-Intensity Lamps
55	Cesium	Cs	Transition Metal	Group 2, Period 4	Optical Glass
56	Barium	Ba	Post-transition Metal	Group 3, Period 4	Glassmaking
57	Lanthanum	La	Lanthanide	Group 4, Period 4	Automotive Industry
58	Cerium	Ce	Actinide	Group 5, Period 4	Lighter Flint
59	Praseodymium	Pr	Halogen	Group 6, Period 4	Safety Glass
60	Neodymium	Nd	Nonmetal	Group 7, Period 4	Microphone Magnets
61	Promethium	Pm	Noble Gas	Group 8, Period 4	Luminous Dial
62	Samarium	Sm	Alkali Metal	Group 9, Period 4	Electric Car Motor
63	Europium	Eu	Alkaline Earth Metal	Group 10, Period 4	Color Television
64	Gadolinium	Gd	Metalloid	Group 11, Period 4	MRI
65	Terbium	Tb	Transition Metal	Group 12, Period 4	Fluorescent Lamps
66	Dysprosium	Dy	Post-transition Metal	Group 13, Period 4	Medical Laser

67	Holmium	Ho	Lanthanide	Group 14, Period 4	Laser Surgery
68	Erbium	Er	Actinide	Group 15, Period 4	Optical FiberCommunications
69	Thulium	Tm	Halogen	Group 16, Period 4	Microwave Equipment
70	Ytterbium	Yb	Nonmetal	Group 17, Period 4	Steel Industry
71	Lutetium	Lu	Noble Gas	Group 18, Period 4	Nuclear Physics
72	Hafnium	Hf	Alkali Metal	Group 1, Period 4	Electronic Equipment
73	Tantalum	Ta	Alkaline Earth Metal	Group 2, Period 5	Cell Phones
74	Tungsten	W	Metalloid	Group 3, Period 5	Helicopters
75	Rhenium	Re	Transition Metal	Group 4, Period 5	Rocket Engine
76	Osmium	Os	Post-transition Metal	Group 5, Period 5	Microscopes
77	Iridium	Ir	Lanthanide	Group 6, Period 5	X-Ray Telescopes
78	Platinum	Pt	Actinide	Group 7, Period 5	Dentistry
79	Gold	Au	Halogen	Group 8, Period 5	Banking and Finance
80	Mercury	Hg	Nonmetal	Group 9, Period 5	Thermometers
81	Thallium	Tl	Noble Gas	Group 10, Period 5	Low Temperature Thermometers
82	Lead	Pb	Alkali Metal	Group 11, Period 5	Explosives
83	Bismuth	Bi	Alkaline Earth Metal	Group 12, Period 5	Fire Sprinklers
84	Polonium	Po	Metalloid	Group 13, Period 5	Anti-Static Brushes
85	Astatine	At	Transition Metal	Group 14, Period 5	Cancer Treatment
86	Radon	Rn	Post-transition Metal	Group 15, Period 5	Surgacal Implants
87	Francium	Fr	Lanthanide	Group 16, Period 5	Laser Atom Traps
88	Radium	Ra	Actinide	Group 17, Period 5	Cancer Treatment
89	Actinium	Ac	Halogen	Group 18, Period 5	Radioactive Medicine

90	Thorium	Th	Nonmetal	Group 1, Period 5	Nuclear Power
91	Protactinium	Pa	Noble Gas	Group 2, Period 6	Radioactive Waste
92	Uranium	U	Alkali Metal	Group 3, Period 6	Nuclear Power
93	Neptunium	Np	Alkaline Earth Metal	Group 4, Period 6	Radioactive Waste
94	Plutonium	Pu	Metalloid	Group 5, Period 6	Nuclear Weapon
95	Americium	Am	Transition Metal	Group 6, Period 6	Smoke Detector
96	Curium	Cm	Post-transition Metal	Group 7, Period 6	Nuclear Reactor
97	Berkelium	Bk	Lanthanide	Group 8, Period 6	Radioactive Waste
98	Californium	Cf	Actinide	Group 9, Period 6	Radiotherapy
99	Einsteinium	Es	Halogen	Group 10, Period 6	Actinide Metals
100	Fermium	Fm	Nonmetal	Group 11, Period 6	Actinide Metals
101	Mendelevium	Md	Noble Gas	Group 12, Period 6	Actinide Metals
102	Nobelium	No	Alkali Metal	Group 13, Period 6	Actinide Metals
103	Lawrencium	Lr	Alkaline Earth Metal	Group 14, Period 6	Actinide Metals
104	Rutherfordium	Rf	Metalloid	Group 15, Period 6	Research applications
105	Dubnium	Db	Transition Metal	Group 16, Period 6	Research applications
106	Seaborgium	Sg	Post-transition Metal	Group 17, Period 6	Research applications
107	Bohrium	Bh	Lanthanide	Group 18, Period 6	Research applications
108	Hassium	Hs	Actinide	Group 1, Period 6	Research applications
109	Meitnerium	Mt	Halogen	Group 2, Period 7	Research applications
110	Darmstadtium	Ds	Nonmetal	Group 3, Period 7	Research applications
111	Roentgenium	Rg	Noble Gas	Group 4, Period 7	Research applications
112	Copernicium	Cn	Alkali Metal	Group 5, Period 7	Research applications

113	Nihonium	Nh	Alkaline Earth Metal	Group 6, Period 7	Research applications
114	Flerovium	Fl	Metalloid	Group 7, Period 7	Research applications
115	Moscovium	Mc	Transition Metal	Group 8, Period 7	Research applications
116	Livermorium	Lv	Post-transition Metal	Group 9, Period 7	Research applications
117	Tennessine	Ts	Lanthanide	Group 10, Period 7	Research applications
118	Oganesson	Og	Actinide	Group 11, Period 7	Research applications