

# The Periodic Table of the Elements, in Pictures

Periods	Alkali Metals Group 1	Alkali Earth Metals 2	Transition Metals										Boron Group 13	Carbon Group 14	Nitrogen Group 15	Oxygen Group 16	Halogens 17	Noble Gases 18
1	H Hydrogen 1 Sun and Stars																	He Helium 2 Balloons
2	Li Lithium 3 Batteries	Be Beryllium 4 Emeralds											B Boron 5 Sports Equipment	C Carbon 6 Basis of Life's Molecules	N Nitrogen 7 Protein	O Oxygen 8 Air	F Fluorine 9 Toothpaste	Ne Neon 10 Advertising Signs
3	Na Sodium 11 Salt	Mg Magnesium 12 Chlorophyll											Al Aluminum 13 Airplanes	Si Silicon 14 Stone, Sand, and Soil	P Phosphorus 15 Bones	S Sulfur 16 Eggs	Cl Chlorine 17 Swimming Pools	Ar Argon 18 Light Bulbs
4	K Potassium 19 Fruits and Vegetables	Ca Calcium 20 Shells and Bones	Sc Scandium 21 Bicycles	Ti Titanium 22 Aerospace	V Vanadium 23 Springs	Cr Chromium 24 Stainless Steel	Mn Manganese 25 Earthmovers	Fe Iron 26 Steel Structures	Co Cobalt 27 Magnets	Ni Nickel 28 Coins	Cu Copper 29 Electric Wires	Zn Zinc 30 Brass Instruments	Ga Gallium 31 Light-Emitting Diodes (LEDs)	Ge Germanium 32 Semiconductor Electronics	As Arsenic 33 Poison	Se Selenium 34 Copiers	Br Bromine 35 Photography Film	Kr Krypton 36 Flashlights
5	Rb Rubidium 37 Global Navigation	Sr Strontium 38 Fireworks	Y Yttrium 39 Lasers	Zr Zirconium 40 Chemical Pipelines	Nb Niobium 41 Mag Lev Trains	Mo Molybdenum 42 Cutting Tools	Tc Technetium 43 Radioactive Diagnosis	Ru Ruthenium 44 Electric Switches	Rh Rhodium 45 Searchlight Reflectors	Pd Palladium 46 Pollution Control	Ag Silver 47 Jewelry	Cd Cadmium 48 Paint	In Indium 49 Liquid Crystal Displays (LCDs)	Sn Tin 50 Plated Food Cans	Sb Antimony 51 Car Batteries	Te Tellurium 52 Thermoelectric Coolers	I Iodine 53 Disinfectant	Xe Xenon 54 High-Intensity Lamps
6	Cs Cesium 55 Atomic Clocks	Ba Barium 56 X-Ray Diagnosis	71 - 80 Rare Earth Metals	Hf Hafnium 72 Nuclear Submarines	Ta Tantalum 73 Mobile Phones	W Tungsten 74 Lamp Filaments	Re Rhenium 75 Rocket Engines	Os Osmium 76 Pen Points	Ir Iridium 77 Spark Plugs	Pt Platinum 78 Labware	Au Gold 79 Jewelry	Hg Mercury 80 Thermometers	Tl Thallium 81 Low-Temperature Thermometers	Pb Lead 82 Weights	Bi Bismuth 83 Fire Sprinklers	Po Polonium 84 Anti-Static Brushes	At Astatine 85 Radioactive Medicine	Rn Radon 86 Surgical Implants
7	Fr Francium 87 Laser Atom Traps	Ra Radium 88 Luminous Watches	89 - 103 Actinide Metals	Rf Rutherfordium 104	Db Dubnium 105	Sg Seaborgium 106	Bh Bohrium 107	Hs Hassium 108	Mt Meitnerium 109	Ds Darmstadtium 110	Rg Roentgenium 111	Cn Copernicium 112	Nh Nihonium 113	Fl Flerovium 114	Mc Moscovium 115	Lv Livermorium 116	Ts Tennessine 117	Og Oganesson 118
8	<p style="text-align: center;"><b>Superheavy Elements</b> radioactive, never found in nature, no uses except atomic research</p>																	
	Rare Earth Metals		La Lanthanum 57 Telescope Lenses	Ce Cerium 58 Lighter Flint	Pr Praseodymium 59 Torchworkers' Eyeglasses	Nd Neodymium 60 Electric Motor Magnets	Pm Promethium 61 Luminous Dials	Sm Samarium 62 Electric Motor Magnets	Eu Europium 63 Color Televisions	Gd Gadolinium 64 MRI Diagnosis	Tb Terbium 65 Fluorescent Lamps	Dy Dysprosium 66 Smart Material Actuators	Ho Holmium 67 Laser Surgery	Er Erbium 68 Optical Fiber Communications	Tm Thulium 69 Laser Surgery	Yb Ytterbium 70 Scientific Fiber Lasers	Lu Lutetium 71 Photodynamic Medicine	
	Actinide Metals		Ac Actinium 89 Radioactive Medicine	Th Thorium 90 Gas Lamp Mantles	Pa Protactinium 91 Radioactive Waste	U Uranium 92 Nuclear Power	Np Neptunium 93 Radioactive Waste	Pu Plutonium 94 Nuclear Weapons	Am Americium 95 Smoke Detectors	Cm Curium 96 Mineral Analyzers	Bk Berkelium 97 Radioactive Waste	Cf Californium 98 Mineral Analyzers	Es Einsteinium 99 	Fm Fermium 100 	Md Mendeleevium 101 	No Nobelium 102 	Lr Lawrencium 103 	