The Periodic Table of the Elements, in Pictures

Periods

	Alkali Metals Group 1	Alkali Earth Metals 2	Transition Metals 3	4	5	6	7	8	9	10	11	12	Boron Group 13	Carbon Group 14	Nitrogen Group 15	Oxygen Group 16	Halogens 17	Noble Gases 18
1	H 1 Hydrogen — Sun and Stars																	He 2 Helium — Balloons
2	Li 3 Lithium — Batteries	Be 4 Beryllium — Emeralds											B 5 Boron — Sports Equipment	C 6 Carbon — Basis of Life's Molecules	N 7 Nitrogen — Protein	O 8 Oxygen — Air	F 9 Fluorine — Toothpaste	Ne 10 Neon — Advertising Signs
3	Na 11 Sodium — Salt	Mg 12 Magnesium — Chlorophyll											Al 13 Aluminum — Airplanes	Si 14 Silicon — Stone, Sand, and Soil	P 15 Phosphorus — Bones	S 16 Sulfur — Egg Yolks	Cl 17 Chlorine — Swimming Pools	Ar 18 Argon — Light Bulbs
4	K 19 Potassium — Fruits and Vegetables	Ca 20 Calcium — Shells and Bones	Sc 21 Scandium — Bicycles	Ti 22 Titanium — Aerospace	V 23 Vanadium — Springs	Cr 24 Chromium — Stainless Steel	Mn 25 Manganese — Earthmovers	Fe 26 Iron — Steel Structures	Co 27 Cobalt — Magnets	Ni 28 Nickel — Coins	Cu 29 Copper — Electric Wires	Zn 30 Zinc — Brass Instruments	Ga 31 Gallium — Light-Emitting Diodes (LEDs)	Ge 32 Germanium — Semiconductor Electronics	As 33 Arsenic — Poison	Se 34 Selenium — Copiers	Br 35 Bromine — Photography Film	Kr 36 Krypton — Flashlights
5	Rb 37 Rubidium — Global Navigation	Sr 38 Strontium — Fireworks	Y 39 Yttrium — Lasers	Zr 40 Zirconium — Chemical Pipelines	Nb 41 Niobium — Mag Lev Trains	Mo 42 Molybdenum — Cutting Tools	Tc 43 Technetium — Radioactive Diagnosis	Ru 44 Ruthenium — Electric Switches	Rh 45 Rhodium — Searchlight Reflectors	Pd 46 Palladium — Pollution Control	Ag 47 Silver — Jewelry	Cd 48 Cadmium — Paint	In 49 Indium — Liquid Crystal Displays (LCDs)	Sn 50 Tin — Plated Food Cans	Sb 51 Antimony — Car Batteries	Te 52 Tellurium — Thermoelectric Coolers	I 53 Iodine — Disinfectant	Xe 54 Xenon — High-Intensity Lamps
6	Cs 55 Cesium — Atomic Clocks	Ba 56 Barium — X-Ray Diagnosis	57 - 71 Rare Earth Metals	Hf 72 Hafnium — Nuclear Submarines	Ta 73 Tantalum — Mobile Phones	W 74 Tungsten — Lamp Filaments	Re 75 Rhenium — Rocket Engines	Os 76 Osmium — Pen Points	Ir 77 Iridium — Spark Plugs	Pt 78 Platinum — Labware	Au 79 Gold — Jewelry	Hg 80 Mercury — Thermometers	Tl 81 Thallium — Low-Temperature Thermometers	Pb 82 Lead — Weights	Bi 83 Bismuth — Fire Sprinklers	Po 84 Polonium — Anti-Static Brushes	At 85 Astatine — Radioactive Medicine	Rn 86 Radon — Surgical Implants
7	Fr 87 Francium — Laser Atom Traps	Ra 88 Radium — Luminous Watches	89 - 103 Actinide Metals	Rf 104 Rutherfordium	Db 105 Dubnium	Sg 106 Seaborgium	Bh 107 Bohrium	Hs 108 Hassium	Mt 109 Meitnerium	Ds 110 Darmstadtium	Rg 111 Roentgenium	Cn 112 Copernicium	113	114	115	116	117	118
8	119	120	121 - 153															

Superheavy Elements

radioactive, never found in nature, no uses except atomic research

Rare Earth Metals 6	La 57 Lanthanum — Telescope Lenses	Ce 58 Cerium — Lighter Flints	Pr 59 Praseodymium — Torchworkers' Eyeglasses	Nd 60 Neodymium — Electric Motor Magnets	Pm 61 Promethium — Luminous Dials	Sm 62 Samarium — Electric Motor Magnets	Eu 63 Europium — Color Televisions	Gd 64 Gadolinium — MRI Diagnosis	Tb 65 Terbium — Fluorescent Lamps	Dy 66 Dysprosium — Smart Material Actuators	Ho 67 Holmium — Laser Surgery	Er 68 Erbium — Optical Fiber Communications	Tm 69 Thulium — Laser Surgery	Yb 70 Ytterbium — Scientific Fiber Lasers	Lu 71 Lutetium — Photodynamic Medicine
Actinide Metals 7	Ac 89 Actinium — Radioactive Medicine	Th 90 Thorium — Gas Lamp Mantles	Pa 91 Protactinium — Radioactive Waste	U 92 Uranium — Nuclear Power	Np 93 Neptunium — Radioactive Waste	Pu 94 Plutonium — Nuclear Weapons	Am 95 Americium — Smoke Detectors	Cm 96 Curium — Mineral Analyzers	Bk 97 Berkelium — Radioactive Waste	Cf 98 Californium — Mineral Analyzers	Es 99 Einsteinium	Fm 100 Fermium	Md 101 Mendelevium	No 102 Nobelium	Lr 103 Lawrencium

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