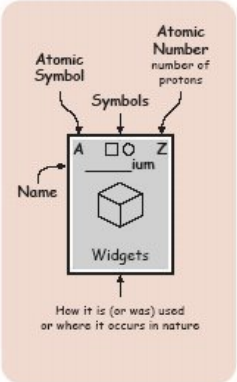


The Periodic Table of the Elements, in Pictures

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 Sun and Stars	He Helium Balloons											B Boron Sports Equipment	C Carbon Basis of Life's Molecules	N Nitrogen Protein	O Oxygen Air	F Fluorine Toothpaste	Ne Neon Advertising Signs												
2	Li Lithium Batteries	Be Beryllium Emeralds											Al Aluminum Aircraft	Si Silicon Stone, Sand, and Soil	P Phosphorus Bones	S Sulfur Egg Yolks	Cl Chlorine Swimming Pools	Ar Argon Light Bulbs												
3	Na Sodium Salt	Mg Magnesium Chlorophyll											K Potassium Fruits and Vegetables	Ca Calcium Shells and Bones	Sc Scandium Bicycles	Ti Titanium Aerospace	V Vanadium Springs	Cr Chromium Stainless Steel	Mn Manganese Earthmovers	Fe Iron Steel Structures	Co Cobalt Magnets	Ni Nickel Coins	Cu Copper Electric Wires	Zn Zinc Brass Instruments	Ga Gallium Light-Emitting Diodes (LEDs)	Ge Germanium Semiconductor Electronics	As Arsenic Poison	Se Selenium Copiers	Br Bromine Photography Film	Kr Krypton Flashlights
4	K Potassium Fruits and Vegetables	Ca Calcium Shells and Bones											Rb Rubidium Global Navigation	Sr Strontium Fireworks	Y Yttrium Lasers	Zr Zirconium Chemical Pipelines	Nb Niobium Mag Lev Trains	Mo Molybdenum Cutting Tools	Tc Technetium Radioactive Diagnosis	Ru Ruthenium Electric Switches	Rh Rhodium Searchlight Reflectors	Pd Palladium Pollution Control	Ag Silver Jewelry	Cd Cadmium Paint	In Indium Liquid Crystal Displays (LCDs)	Sn Tin Plated Food Cans	Sb Antimony Car Batteries	Te Tellurium Thermoelectric Coolers	I Iodine Disinfectant	Xe Xenon High-Intensity Lamps
5	Cs Cesium Atomic Clocks	Ba Barium X-Ray Diagnosis											La Lanthanum Telescope Lenses	Ce Cerium Lighter Flints	Pr Praseodymium Tachworkers' Eyeglasses	Nd Neodymium Electric Motor Magnets	Pm Promethium Luminous Dials	Sm Samarium Electric Motor Magnets	Eu Europium Color Televisions	Gd Gadolinium MRI Diagnosis	Tb Terbium Fluorescent Lamps	Dy Dysprosium Smart Material Actuators	Ho Holmium Laser Surgery	Er Erbium Optical Fiber Communications	Tm Thulium Laser Surgery	Yb Ytterbium Scientific Fiber Lasers	Lu Lutetium Photodynamic Medicine			
6	Fr Francium Laser Atom Traps	Ra Radium Luminous Watches											Ac Actinium Radioactive Medicine	Th Thorium Gas Lamp Mantles	Pa Protactinium Radioactive Waste	U Uranium Nuclear Power	Np Neptunium Radioactive Waste	Pu Plutonium Nuclear Weapons	Am Americium Smoke Detectors	Cm Curium Mineral Analyzers	Bk Berkelium Radioactive Waste	Cf Californium Mineral Analyzers	Es Einsteinium radioactive, never found in nature, no uses except atomic research	Fm Fermium radioactive, never found in nature, no uses except atomic research	Md Mendelevium radioactive, never found in nature, no uses except atomic research	No Nobelium radioactive, never found in nature, no uses except atomic research	Lr Lawrencium radioactive, never found in nature, no uses except atomic research			
7	Superheavy Elements radioactive, never found in nature, no uses except atomic research																													
8	Groups The vertical columns are called groups. Elements in the same group behave similarly because they have the same number of outer electrons. Group 1 has one outer electron, group 2 has two, etc. Most transition metals have two.																													



- Solid** (square icon)
- Liquid** (triangle icon)
- Gas** (circle icon)
- at room temperature
- Human Body** (star icon): top ten elements by weight
- Earth's Crust** (star icon): top eight elements by weight
- Magnetic** (star icon): ferromagnetic at room temperature
- Noble Metals** (star icon): corrosion-resistant
- Radioactive** (star icon): all isotopes are radioactive
- Only Traces Found in Nature** (star icon): less than a millionth percent of earth's crust
- Never Found in Nature** (star icon): only made by people

