

The Periodic Table of the Elements, in Pictures and Words

H 1 Hydrogen



Sun and Stars

Li Lithium 3 Be Beryllium 4



Batteries

Emeralds

Na Sodium 11

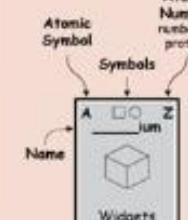


Salt

Mg Magnesium 12



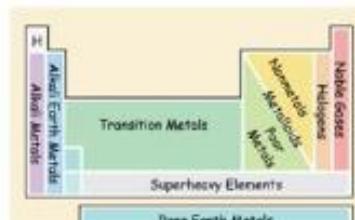
Chlorophyll



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Atomic Number number of protons
Solid
Liquid
Gas
at room temperature
The color of the symbol is the color of the element in its most common pure form.
Example: metallic solid (red), red liquid (colorless gas)
★ Human Body: top ten elements by weight
Earth's Crust: top eight elements by weight
Magnetic: ferromagnetics at room temperature
Noble Metals: common resistor
Radioactive: all isotopes are radioactive
Only Traces Found in Nature: less than a millionth percent of earth's crust
Never Found in Nature: only made by people

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H 1 Hydrogen	He 2 Helium
Boron	Balloons
Carbon	Carbon
Nitrogen	Oxygen
Protein	Air
Silicon	Toothpaste
Phosphorus	Advertising Signs
Sulfur	Clorine
Egg Yolks	Swimming Pools
Stone, Sand, and Soil	Light Bulbs
Bones	Flaslights
Copper	Gallium
Zinc	Germanium
Magnets	Asenic
Cards	Selenium
Electric Wires	Bronine
Brass Instruments	Krypton
12:30	Photography Film
Light-Emitting Diodes (LEDs)	Flashlights
Semiconductor Electronics	
Poison	
Copiers	
Liquid Crystal Displays (LCDs)	
Plated Food Cans	
Car Batteries	
Thermoelectric Coolers	
Antibiotics	
Disinfectant	
High-Intensity Lamps	

K 19 Potassium	Ca 20 Calcium	Sc 21 Scandium	Ti 22 Titanium	V 23 Vanadium	Cr 24 Chromium	Mn 25 Manganese	Fe 26 Iron	Co 27 Cobalt	Ni 28 Nickel	Cu 29 Copper	Zn 30 Zinc	Ga 31 Gallium	Ge 32 Germanium	As 33 Arsenic	Se 34 Selenium	Br 35 Bromine	Kr 36 Krypton	
Fruits and Vegetables	Shells and Bones	Bicycles	Aerospace	Springs	Stainless Steel	Earthmovers	Steel Structures	Magnets	Cards	Electric Wires	Brass Instruments	12:30	Light-Emitting Diodes (LEDs)	Semiconductor Electronics	Poison	Copiers	Photography Film	Flashlights
Rb 37 Rubidium	Sr 38 Strontium	Yttrium	Zirconium	Nb 40 Niobium	Mo 41 Molybdenum	Tc 42 Technetium	Ru 43 Ruthenium	Rh 44 Rhodium	Pd 45 Palladium	Ag 46 Silver	Cd 47 Cadmium	In 48 Indium	Sn 49 Tin	Sb 50 Antimony	Te 51 Tellurium	I 52 Iodine	Xe 53 Xenon	54
Global Navigation	Fireworks	Lasers	Chemical Pipelines	Mag Lev Trains	Cutting Tools	Radioactive Diagnosis	Electric Switches	Searchlight Reflectors	Pollution Control	Jewelry	Paint	Liquid Crystal Displays (LCDs)	Plated Food Cans	Car Batteries	Thermoelectric Coolers	Disinfectant	High-Intensity Lamps	
Cs 55 Cesium	Ba 56 Barium	57 - 71	Hf 72 Hafnium	Ta 73 Tantalum	W 74 Tungsten	Re 75 Rhenium	Os 76 Osmium	Ir 77 Platinum	Pt 78 Gold	Hg 79 Mercury	Tl 80 Thallium	Pb 81 Lead	Bi 82 Bismuth	Po 83 Polonium	At 84 Astatine	Rn 85 Radon	86	
Atomic Clocks	X-Ray Diagnosis		Nuclear Submarines	Mobile Phones	Lamp Filaments	Rocket Engines	Pen Points	Spark Plugs	Labware	Jewelry	Thermometers	Low-Temperature Thermometers	Weights	Fire Sprinklers	Anti-Static Brushes	Radioactive Medicine	Surgical Implants	
Fr 87 Francium	Ra 88 Radium	89 - 103	Rutherfordium	Dubnium	Sg 105 Seaborgium	Bh 106 Bohrium	Hs 107 Hassium	Mt 108 Meitnerium	Ds 109 Darmstadtium	Rg 110 Roentgenium	Cn 111 Copernicium	Nh 112 Nihonium	Fl 113 Flerovium	Moscovium 115 Livermorium	Lv 116 Tennessee	Ts 117 Oganesson		
Laser Atom Traps	Luminous Watches																	

La 57 Lanthanum	Ce 58 Cerium	Pr 59 Praseodymium	Nd 60 Neodymium	Pm 61 Promethium	Sm 62 Samarium	Eu 63 Europium	Gd 64 Gadolinium	Tb 65 Terbium	Dy 66 Dysprosium	Ho 67 Holmium	Er 68 Erbium	Tm 69 Thulium	Yb 70 Ytterbium	Lu 71 Lutetium
Telescope Lenses	Lighter Fluids	Torchworkers' Eyeglasses	Electric Motor Magnets	Luminous Dials	Electric Motor Magnets	Color Televisions	MRI Diagnosis	Fluorescent Lamps	Smart Material Actuators	Laser Surgery	Optical Fiber Communications	Laser Surgery	Scientific Fiber Lasers	Photodynamic Medicine
Actinium	Thorium	Protactinium	Uranium	Neptunium	Plutonium	Americium	Curium	Berkelium	Californium	Einsteinium	Fermium	Mendelevium	Nobelium	Lawrence
Radioactive Medicine	Gas Lamp Mantles	Radioactive Waste	Nuclear Power	Radioactive Waste	Nuclear Weapons	Smoke Detectors	Mineral Analyzers	Radioactive Waste	Mineral Analyzers					