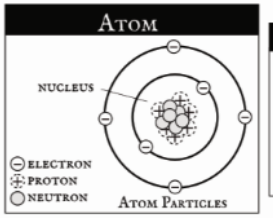
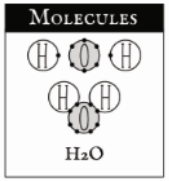
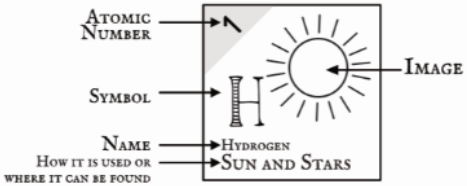
PERIODIC TABLE







	I	II	III	IV	V	VI	VII	VIII
1	1 H Hydrogen — Sun and Stars							2 He Helium — Balloons
2	3 Li Lithium — Batteries	4 Be Beryllium — Spaceship and Springs						5 B Boron — Soap; 6 C Carbon — Charcoal; 7 N Nitrogen — Atmosphere; 8 O Oxygen — Air; 9 F Fluorine — Toothpaste; 10 Ne Neon — Advertising Signs
3	11 Na Sodium — Salt	12 Mg Magnesium — Medicine						13 Al Aluminum — Foil Wrap; 14 Si Silicon — Windows; 15 P Phosphorus — Baking Powder; 16 S Sulfur — Volcanos; 17 Cl Chlorine — Swimming Pools; 18 Ar Argon — Light Bulbs
4	19 K Potassium — Fruits and Vegetables	20 Ca Calcium — Teeth and Bones	21 Sc Scandium — Golf Iron Shaft	22 Ti Titanium — Aircraft	23 V Vanadium — Vanadium Steel	24 Cr Chromium — Stainless Steel, Mirror Finish	25 Mn Manganese — Drink Cans	26 Fe Iron — Steel Structures; 27 Co Cobalt — Pottery; 28 Ni Nickel — Coins; 29 Cu Copper — Copper Locks; 30 Zn Zinc — Sun Block; 31 Ga Gallium — Mirrors; 32 Ge Germanium — Wide Angle Camera Lenses; 33 As Arsenic — Laser; 34 Se Selenium — Photocopiers; 35 Br Bromine — Seawater; 36 Kr Krypton — Flash Photography
5	37 Rb Rubidium — Fireworks	38 Sr Strontium — Magnets	39 Y Yttrium — Color TV Screens	40 Zr Zirconium — Cubic Zirconia	41 Nb Niobium — Hypoallergenic Piercings	42 Mo Molybdenum — Aircraft/Spaceship Parts	43 Tc Technetium — Radioactive Diagnosis	44 Ru Ruthenium — Solar Cells; 45 Rh Rhodium — Catalytic Converter; 46 Pd Palladium — Dental Crowns; 47 Ag Silver — Deodorants; 48 Cd Cadmium — Rubber Ducks; 49 In Indium — Liquid Crystal Displays; 50 Sn Tin — Plated Food Cans; 51 Sb Antimony — Car Battery; 52 Te Tellurium — DVDs; 53 I Iodine — Disinfectant; 54 Xe Xenon — Flashlights
6	55 Cs Cesium — Atomic Clocks	56 Ba Barium — Paint	57–71 Rare Earth Metals	72 Hf Hafnium — Nuclear Submarines	73 Ta Tantalum — Mobile Phone Cases	74 W Tungsten — Wolfram Rings	75 Re Rhenium — Jet Engines	76 Os Osmium — Pen Points; 77 Ir Iridium — Flat Panel Display; 78 Pt Platinum — Pacemakers; 79 Au Gold — Medals; 80 Hg Mercury — Glass Thermometer; 81 Tl Thallium — Low-Temp. Thermometers; 82 Pb Lead — Fishing Weights; 83 Bi Bismuth — Medicine; 84 Po Polonium — Anti-Static Brushes; 85 At Astatine — Radioactive Medicine; 86 Rn Radon — Radioactive Medicine
7	87 Fr Francium — Laser Atom Traps	88 Ra Radium — Luminous Watches	89–103 Actinide Metals	104 Rf Rutherfordium 267	105 Db Dubnium 268	106 Sg Seaborgium 269	107 Bh Bohrium 270	108 Hs Hassium 277; 109 Mt Meitnerium 278; 110 Ds Darmstadtium 281; 111 Rg Roentgenium 282; 112 Cn Copernicium 285; 113 Nh Nihonium 286; 114 Fl Flerovium 289; 115 Mc Moscovium 290; 116 Lv Livermorium 293; 117 Ts Tennessine 294; 118 Og Oganesson 294

Superheavy Elements. Radioactive. Never found in nature. No uses except atomic research.

Rare Earth Metals Lanthanide Series	57 La Lanthanum — Camera Lenses	58 Ce Cerium — Lighter Flints	59 Pr Praseodymium — Studio Lighting	60 Nd Neodymium — Magnets in Bass Guitars	61 Pm Promethium — Luminous Paint	62 Sm Samarium — Headphones	63 Eu Europium — Computer Monitors	64 Gd Gadolinium — MRI Diagnosis	65 Tb Terbium — Sonar Systems	66 Dy Dysprosium — CD Player	67 Ho Holmium — Laser Eye Surgery	68 Er Erbium — Glass Colorant	69 Tm Thulium — Euro Banknotes	70 Yb Ytterbium — Portable X-Ray Machines	71 Lu Lutetium — Catalyst
Actinide Metals	89 Ac Actinium — Radioactive Medicine	90 Th Thorium — Nuclear Fuel	91 Pa Protactinium — Radioactive Waste	92 U Uranium — Nuclear Power Plant	93 Np Neptunium — Scientific Research	94 Pu Plutonium — Nuclear Spacecraft Power	95 Am Americium — Smoke Detectors	96 Cm Curium — Cardiac Pacemakers	97 Bk Berkelium — Radioactive Waste	98 Cf Californium — Source(Portable Neutrons)	99 Es Einsteinium 252	100 Fm Fermium 257	101 Md Mendelevium 258	102 No Nobelium 259	103 Lr Lawrencium 266

Radioactive. Never found in nature. No uses except atomic research.

Key

- liquid
- solid
- gas

Vertical columns are called "groups".

Elements of the same group behave similarly because their number of outer electrons is the same.

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