



BRIEF DESCRIPTION:

The arrangement of the elements from left to right, top to bottom, according to atomic number, electron configuration, and recurring chemical properties.

BOOKS AT MPL:

Periodic Table:

- YA 546.8 Basics -- [The Basics of the Periodic Table](#) -- Gray, Leon
- YA 540 Kean -- [The Disappearing Spoon: and Other True Tales of Rivalry, Adventure, and the History of the World from the Periodic Table of the Elements](#) -- Kean, Sam
- YA 546.8 Still -- [The Secret Life of the Periodic Table: Unlocking the Mysteries of All 118 Elements](#) -- Still, Ben

Elements:

- YA 546 Challoner -- [Exploring the Mysteries of the Elements](#) -- Challoner, Jack
- YA 546 Elements -- [The Elements: a Visual Exploration of Every Known Atom in the Universe](#) -- Gray, Theodore

General Chemistry (with chapters on the periodic table):

- YA 540 Chen -- [Barron's Painless Chemistry](#) -- Chen, Loris
 - Chapter 2: The Periodic Table of the Elements
- YA 540 Chemistry -- [Chemistry: Understanding Substance and Matter](#) -- Kutzt, Russell (ed.)
 - Chapter 3: Elements and the Periodic Table
- YA 541 Mooney -- [Chemistry: Investigate the Matter that Makes Up Your World](#) -- Mooney, Carla
 - Chapter 1: Atoms, Elements, and the Periodic Table

AV MATERIALS AT MPL:

Books on CD:

- NF Books on CD/Kean -- [The Disappearing Spoon: and Other True Tales of Rivalry, Adventure, and the History of the World from the Periodic Table of the Elements](#) -- Kean, Sam

Periodic Table of Elements

The image shows a standard periodic table of elements, color-coded by groups. A legend in the top center identifies the color groups: Alkali Metal (red), Alkaline Earth Metal (orange), Transition Metal (yellow), Post-Transition Metal (light yellow), Metalloid (green), Polyatomic Nonmetal (teal), Diatomic Nonmetal (blue), Noble Gas (purple), Lanthanide (brown), Actinide (grey), and Unknown Properties (dark grey). A callout box for Hydrogen (H) lists its Atomic Number (1), Atomic Weight (1.008), Symbol (H), and Name (Hydrogen). The Lanthanide and Actinide series are shown at the bottom.

1.008 1 H Hydrogen	3.041 3 Li Lithium	9.012 4 Be Beryllium											10.811 5 B Boron	12.011 6 C Carbon	14.007 7 N Nitrogen	15.999 8 O Oxygen	18.998 9 F Fluorine	20.180 10 Ne Neon
22.990 11 Na Sodium	24.305 12 Mg Magnesium											26.982 13 Al Aluminum	28.086 14 Si Silicon	30.974 15 P Phosphorus	32.06 16 S Sulfur	35.453 17 Cl Chlorine	39.948 18 Ar Argon	
39.098 19 K Potassium	40.078 20 Ca Calcium	44.956 21 Sc Scandium	47.887 22 Ti Titanium	50.942 23 V Vanadium	51.996 24 Cr Chromium	54.938 25 Mn Manganese	55.845 26 Fe Iron	58.933 27 Co Cobalt	58.933 28 Ni Nickel	63.546 29 Cu Copper	65.38 30 Zn Zinc	69.723 31 Ga Gallium	72.631 32 Ge Germanium	74.922 33 As Arsenic	78.971 34 Se Selenium	79.904 35 Br Bromine	83.798 36 Kr Krypton	
85.468 37 Rb Rubidium	87.62 38 Sr Strontium	88.906 39 Y Yttrium	91.224 40 Zr Zirconium	92.906 41 Nb Niobium	95.94 42 Mo Molybdenum	98.906 43 Tc Technetium	101.07 44 Ru Ruthenium	101.07 45 Rh Rhodium	106.42 46 Pd Palladium	107.868 47 Ag Silver	112.411 48 Cd Cadmium	114.818 49 In Indium	118.710 50 Sn Tin	121.760 51 Sb Antimony	127.6 52 Te Tellurium	127.603 53 I Iodine	131.294 54 Xe Xenon	
132.905 55 Cs Cesium	137.327 56 Ba Barium	138.905 57-71 Lanthanide Series	175.07 72 Hf Hafnium	180.948 73 Ta Tantalum	183.84 74 W Tungsten	186.207 75 Re Rhenium	186.207 76 Os Osmium	188.906 77 Ir Iridium	190.224 78 Pt Platinum	195.084 79 Au Gold	200.59 80 Hg Mercury	204.38 81 Tl Thallium	207.2 82 Pb Lead	208.98 83 Bi Bismuth	208.98 84 Po Polonium	209 85 At Astatine	222.018 86 Rn Radon	
223.021 87 Fr Francium	226.025 88 Ra Radium											261.10 112 Cn Copernicium	Unknown 113 Uut	289 114 Fl Flerovium	Unknown 115 Uup	289 116 Lv Livermorium	Unknown 117 Uus	Unknown 118 Uuo
Lanthanide Series			138.905 57 La Lanthanum	140.116 58 Ce Cerium	140.908 59 Pr Praseodymium	144.242 60 Nd Neodymium	144.913 61 Pm Promethium	150.36 62 Sm Samarium	151.964 63 Eu Europium	157.25 64 Gd Gadolinium	158.925 65 Tb Terbium	162.500 66 Dy Dysprosium	164.930 67 Ho Holmium	167.259 68 Er Erbium	168.934 69 Tm Thulium	173.055 70 Yb Ytterbium	174.967 71 Lu Lutetium	
Actinide Series			227.028 89 Ac Actinium	232.038 90 Th Thorium	231.036 91 Pa Protactinium	238.029 92 U Uranium	237.048 93 Np Neptunium	244.064 94 Pu Plutonium	243.061 95 Am Americium	247.070 96 Cm Curium	247.070 97 Bk Berkelium	251.083 98 Cf Californium	252.083 99 Es Einsteinium	257.10 100 Fm Fermium	258.1 101 Md Mendelevium	258.101 102 No Nobelium	259 103 Lr Lawrencium	

ONLINE RESOURCES:

Science in Context:

Search the Science in Context [site](#) for "periodic table" and you will find these and other links:

- [Periodic Table](#) (Gale Encyclopedia of Science)
- [Periodic Table](#) (UXL Encyclopedia of Science)
- [Chemistry: The Periodic Table](#) (Scientific Thought: In Context)
- [Periodic Table: Predicting the Structures and Properties of the Elements](#) (World of Earth Science)

Web Elements:

- [webelements.com](#)
- A clickable periodic table with detailed pages for each element, as well as images of other styles of periodic tables

Dynamic Table:

- [ptable.com](#)
- Interactive periodic table with dynamic layouts showing names, electrons, oxidation, trend visualization, orbitals, isotopes, and compound search.

Chemicool:

- [chemicool.com](#)
- Contains an interactive periodic table, history and background of the periodic table, and other relevant chemistry information,

Periodic Videos:

- [Link](#)
- YouTube channel for all things chemistry. A video about each element on the periodic table. New videos are uploaded every week about science news, interesting molecules and other stuff from the world of chemistry.