

* EACH ROW = AN ENERGY LEVEL (ELECTRON SHELS)

PERIODIC TABLE OF THE ELEMENTS

According to the Commission on Atomic Weights and Isotopic Abundances, International Union of Pure and Applied Chemistry (IUPAC) and the latest information. Atomic weights are relative to 1/12 the weight of the Carbon 12 atom.

Hydrogen H 1.00794	Helium He 4.00260																						
Lithium Li 6.941	Beryllium Be 9.01218	Boron B 10.811	Carbon C 12.011	Nitrogen N 14.0067	Oxygen O 15.9994	Fluorine F 18.998403	Neon Ne 20.1797																
Sodium Na 22.98977	Magnesium Mg 24.305	Aluminum Al 26.98154	Silicon Si 28.0855	Phosphorus P 30.97376	Sulfur S 32.066	Chlorine Cl 35.453	Argon Ar 39.948																
Potassium K 39.0983	Calcium Ca 40.078	Gallium Ga 69.72	Germanium Ge 72.61	Arsenic As 74.9216	Selenium Se 78.96	Bromine Br 79.904	Krypton Kr 83.80																
Rubidium Rb 85.4678	Strontium Sr 87.62	Indium In 114.82	Tin Sn 118.710	Antimony Sb 121.75	Tellurium Te 127.60	Iodine I 126.9045	Xenon Xe 131.29																
Cesium Cs 132.9054	Barium Ba 137.33	Thallium Tl 204.383	Lead Pb 207.2	Bismuth Bi 208.9804	Polonium Po (209)	Astatine At (210)	Radon Rn (222)																
Francium Fr (223)	Radium Ra (226)	<p>The subgroup designations 1 through 18 are those adopted in August, 1984 by the Commission on Nomenclature of Inorganic Chemistry of IUPAC, and since accepted by the American Chemical Society (ACS) for use in its publications. They replace the A & B designations that were applied inconsistently in North America and Europe.</p>																					

of Layers 1 2 3 4 5 6 7

of e- is 2 8 8 18 18 32

2, 8, 8, 18, 18, 25

Lanthanide Series

Actinide Series

Lanthanum La 138.9055	Cerium Ce 140.12	Praseodymium Pr 140.9077	Neodymium Nd 144.24	Promethium Pm (145)	Samarium Sm 150.36	Gadolinium Gd 157.25	Terbium Tb 158.9253	Dysprosium Dy 162.50	Holmium Ho 164.9304	Erbium Er 167.26	Thulium Tm 168.9342	Ytterbium Yb 173.04	Lutetium Lu 174.967
Actinium Ac 227.0278	Thorium Th 232.0381	Protactinium Pa 231.0359	Uranium U 238.0289	Neptunium Np 237.0482	Plutonium Pu (244)	Curium Cm (247)	Berkelium Bk (247)	Californium Cf (251)	Einsteinium Es (252)	Fermium Fm (257)	Mendelevium Md (258)	Nobelium No (259)	Lawrencium Lr (260)

KEY / Element

Potassium 19

K 19

39.0983

Atomic Symbol

Atomic Number

Oxidation State

Electron Configuration

Mass number of most stable isotope in ()

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