

Periodic Table of the Elements

(based on $^{12}_6\text{C} = 12.0000$)

Group		Transition Metals										Representative Elements						
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
1A	2A											3A	4A	5A	6A	7A	8A	
1 H Hydrogen 1.008																		He Helium 4.003
2 Li Lithium 6.941	Be Beryllium 9.012											B Boron 10.81	C Carbon 12.011	N Nitrogen 14.007	O Oxygen 15.999	F Fluorine 18.998	Ne Neon 20.180	
3 Na Sodium 22.990	Mg Magnesium 24.305	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Al Aluminum 26.982	Si Silicon 28.086	P Phosphorus 30.974	S Sulfur 32.06	Cl Chlorine 35.453	Ar Argon 39.948	
4 K Potassium 39.098	Ca Calcium 40.078	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga Gallium 69.723	Ge Germanium 72.61	As Arsenic 74.922	Se Selenium 78.96	Br Bromine 79.904	Kr Krypton 83.80	
5 Rb Rubidium 85.468	Sr Strontium 87.62	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In Indium 114.82	Sn Tin 118.710	Sb Antimony 121.757	Te Tellurium 127.60	I Iodine 126.905	Xe Xenon 131.29	
6 Cs Cesium 132.905	Ba Barium 137.327	La	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl Thallium 204.383	Pb Lead 207.2	Bi Bismuth 208.980	Po Polonium 208.982	At Astatine 210	Rn Radon 222	
7 Fr Francium 223	Ra Radium 226.025	Ac	Rf	Db	Sg	Bh	Hs	Mt										

14 — Atomic number
Si — Symbol
 Silicon — Name
 28.086 — Average Atomic Mass



Inner Transition Metals

Lanthanide series

58 Ce Cerium 140.12	59 Pr Praseodymium 140.908	60 Nd Neodymium 144.24	61 Pm Promethium 144.913	62 Sm Samarium 150.36	63 Eu Europium 151.96	64 Gd Gadolinium 157.25	65 Tb Terbium 158.925	66 Dy Dysprosium 162.50	67 Ho Holmium 164.930	68 Er Erbium 167.26	69 Tm Thulium 168.934	70 Yb Ytterbium 173.04	71 Lu Lutetium 174.967
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90 Th Thorium 232.038	91 Pa Protactinium 231.036	92 U Uranium 238.029	93 Np Neptunium 237.048	94 Pu Plutonium 244.064	95 Am Americium 243.061	96 Cm Curium 247.070	97 Bk Berkelium 247.070	98 Cf Californium 251.080	99 Es Einsteinium 252.083	100 Fm Fermium 257.095	101 Md Mendelevium 258.099	102 No Nobelium 259.101	103 Lr Lawrencium 260.105
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Actinide series

