

1 H Hydrogen 1.008 1																	2 He Helium 4.003 2						
3 Li Lithium 6.941 21	4 Be Beryllium 9.012 22																	5 B Boron 10.811 23	6 C Carbon 12.011 24	7 N Nitrogen 14.007 25	8 O Oxygen 15.999 26	9 F Fluorine 18.998 27	10 Ne Neon 20.180 28
11 Na Sodium 22.990 281	12 Mg Magnesium 24.305 282																	13 Al Aluminum 26.982 283	14 Si Silicon 28.086 284	15 P Phosphorus 30.974 285	16 S Sulfur 32.066 286	17 Cl Chlorine 35.453 287	18 Ar Argon 39.948 288
19 K Potassium 39.098 2881	20 Ca Calcium 40.078 2882	21 Sc Scandium 44.956 2892	22 Ti Titanium 47.867 28102	23 V Vanadium 50.942 28112	24 Cr Chromium 51.996 28131	25 Mn Manganese 54.938 28132	26 Fe Iron 55.845 28142	27 Co Cobalt 58.933 28152	28 Ni Nickel 58.693 28162	29 Cu Copper 63.546 28181	30 Zn Zinc 65.38 28182	31 Ga Gallium 69.723 28183	32 Ge Germanium 72.631 28184	33 As Arsenic 74.922 28185	34 Se Selenium 78.971 28186	35 Br Bromine 79.904 28187	36 Kr Krypton 83.798 28188						
37 Rb Rubidium 85.468 281881	38 Sr Strontium 87.62 281882	39 Y Yttrium 88.906 281892	40 Zr Zirconium 91.224 2818102	41 Nb Niobium 92.906 2818121	42 Mo Molybdenum 95.95 2818131	43 Tc Technetium 98.907 2818132	44 Ru Ruthenium 101.07 2818151	45 Rh Rhodium 102.906 2818161	46 Pd Palladium 106.42 281818	47 Ag Silver 107.868 2818181	48 Cd Cadmium 112.414 2818182	49 In Indium 114.818 2818183	50 Sn Tin 118.711 2818184	51 Sb Antimony 121.760 2818185	52 Te Tellurium 127.6 2818186	53 I Iodine 126.904 2818187	54 Xe Xenon 131.293 2818188						
55 Cs Cesium 132.905 28181881	56 Ba Barium 137.328 28181882	57-71 Lanthanoids	72 Hf Hafnium 178.49 281832102	73 Ta Tantalum 180.948 281832112	74 W Tungsten 183.84 281832122	75 Re Rhenium 186.207 281832132	76 Os Osmium 190.23 281832142	77 Ir Iridium 192.217 281832152	78 Pt Platinum 195.085 281832171	79 Au Gold 196.967 281832181	80 Hg Mercury 200.592 281832182	81 Tl Thallium 204.383 281832183	82 Pb Lead 207.2 281832184	83 Bi Bismuth 208.980 281832185	84 Po Polonium [208.982] 281832186	85 At Astatine 209.987 281832187	86 Rn Radon 222.018 281832188						
87 Fr Francium 223.020 2818321881	88 Ra Radium 226.025 2818321882	89-103 Actinoids	104 Rf Rutherfordium [261] 28183232102	105 Db Dubnium [262] 28183232112	106 Sg Seaborgium [266] 28183232122	107 Bh Bohrium [264] 28183232132	108 Hs Hassium [269] 28183232142	109 Mt Meitnerium [278] 28183232152	110 Ds Darmstadtium [281] 28183232162	111 Rg Roentgenium [280] 28183232172	112 Cn Copernicium [285] 28183232182	113 Nh Nihonium [286] 28183232183	114 Fl Flerovium [289] 28183232184	115 Mc Moscovium [289] 28183232185	116 Lv Livermorium [293] 28183232186	117 Ts Tennessine [294] 28183232187	118 Og Oganesson [294] 28183232188						



Metals



Nonmetals



Metalloids

Lanthanoids

57 La Lanthanum 138.905 28181892	58 Ce Cerium 140.116 28181992	59 Pr Praseodymium 140.908 28182182	60 Nd Neodymium 144.243 28182282	61 Pm Promethium 144.913 28182382	62 Sm Samarium 150.36 28182482	63 Eu Europium 151.964 28182582	64 Gd Gadolinium 157.25 28182592	65 Tb Terbium 158.925 28182782	66 Dy Dysprosium 162.500 28182882	67 Ho Holmium 164.930 28182982	68 Er Erbium 167.259 28183082	69 Tm Thulium 168.934 28183182	70 Yb Ytterbium 173.055 28183282	71 Lu Lutetium 174.967 28183292
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Actinoids

89 Ac Actinium 227.028 2818321892	90 Th Thorium 232.038 28183218102	91 Pa Protactinium 231.036 2818322092	92 U Uranium 238.029 2818322192	93 Np Neptunium 237.048 2818322292	94 Pu Plutonium 244.064 2818322482	95 Am Americium 243.061 2818322582	96 Cm Curium 247.070 2818322592	97 Bk Berkelium 247.070 2818322782	98 Cf Californium 251.080 2818322882	99 Es Einsteinium [254] 2818322892	100 Fm Fermium 257.095 2818323082	101 Md Mendelevium 258.1 2818323182	102 No Nobelium 259.101 2818323282	103 Lr Lawrencium [262] 2818323283
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