

The Modern Periodic Table of the Elements

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|--|--|--|--|---|-------------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|--|--|--|--|---|--|--|---|---|---|---|---|
| 1+ 1 | | S | | | | | | | | | | p | | | | | | 18 | | | | | | | |
| Hydrogen 1 H 1.01 1s 2.1 | | 2+ 2 | | Average relative masses are rounded to two decimal places. | | | | | | | | | | 3+ 13 | | 4+ 14 | 3- 15 | 2- 16 | 1- 17 | Helium 2 He 4.00 1s --- | | | | | |
| Lithium 3 Li 6.94 2s 1.0 | | Beryllium 4 Be 9.01 1.5 | | All average masses are to be treated as measured quantities, and subject to significant figure rules. Do not round them further when performing calculations. | | | | | | | | | | Element name → Mercury | | Atomic # ← 80 | Symbol → Hg | Avg. Mass ← 200.59 | Electronegativity → 1.9 | Boron 5 B 10.81 2p 2.0 | Carbon 6 C 12.01 2.5 | Nitrogen 7 N 14.01 3.0 | Oxygen 8 O 16.00 3.5 | Fluorine 9 F 19.00 4.0 | Neon 10 Ne 20.18 --- |
| Sodium 11 Na 22.99 3s 0.9 | | Magnesium 12 Mg 24.31 1.2 | | d | | | | | | | | | | Aluminum 13 Al 26.98 3p 1.5 | Silicon 14 Si 28.09 1.8 | Phosphorus 15 P 30.97 2.1 | Sulfur 16 S 32.07 2.5 | Chlorine 17 Cl 35.45 3.0 | Argon 18 Ar 39.95 --- | | | | | | |
| Potassium 19 K 39.10 4s 0.8 | | Calcium 20 Ca 40.08 1.0 | | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 3p | Gallium 31 Ga 69.72 1.6 | Germanium 32 Ge 72.61 1.8 | Arsenic 33 As 74.92 2.0 | Selenium 34 Se 78.96 2.4 | Bromine 35 Br 79.90 2.8 | Krypton 36 Kr 83.80 3.0 | | | | | |
| Rubidium 37 Rb 85.47 5s 0.8 | | Strontium 38 Sr 87.62 1.0 | | 57-70 * | 39 Y 88.91 4d 1.2 | 40 Zr 91.22 1.4 | 41 Nb 92.91 1.6 | 42 Mo 95.94 1.8 | 43 Tc (98) 1.9 | 44 Ru 101.07 2.2 | 45 Rh 102.91 2.2 | 46 Pd 106.42 2.2 | 47 Ag 107.87 1.9 | 48 Cd 112.41 1.7 | 49 In 114.82 5p 1.7 | 50 Sn 118.71 1.8 | 51 Sb 121.76 1.9 | 52 Te 127.60 2.1 | 53 I 126.90 2.5 | 54 Xe 131.29 2.6 | | | | | |
| Cesium 55 Cs 132.91 6s 0.7 | | Barium 56 Ba 137.33 0.9 | | 57-70 * | 71 Lu 174.97 5d 1.1 | 72 Hf 178.49 1.3 | 73 Ta 180.95 1.5 | 74 W 183.84 1.7 | 75 Re 186.21 1.9 | 76 Os 190.23 2.2 | 77 Ir 192.22 2.2 | 78 Pt 195.08 2.2 | 79 Au 196.97 2.4 | 80 Hg 200.59 1.9 | 81 Tl 204.38 6p 1.8 | 82 Pb 207.20 1.8 | 83 Bi 208.98 1.9 | 84 Po (209) 2.0 | 85 At (210) 2.2 | 86 Rn (222) 2.4 | | | | | |
| Francium 87 Fr (223) 7s 0.7 | | Radium 88 Ra (226) 0.9 | | 89-102 ** | 103 Lr (262) 6d --- | 104 Rf (261) --- | 105 Db (262) --- | 106 Sg (266) --- | 107 Bh (264) --- | 108 Hs (269) --- | 109 Mt (268) --- | 110 Ds (271) --- | 111 Rg (272) --- | 112 Cn (277) --- | 113 Nh (284) 7p --- | 114 Fl (289) --- | 115 Mc (288) --- | 116 Lv (293) --- | 117 Ts (294) --- | 118 Og (294) --- | | | | | |

*lanthanides

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**actinides

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| Lanthanum 57 La 138.91 4f 1.1 | Cerium 58 Ce 140.12 1.1 | Praseodymium 59 Pr 140.91 1.1 | Neodymium 60 Nd 144.24 1.1 | Promethium 61 Pm (145) 1.1 | Samarium 62 Sm 150.36 1.2 | Europium 63 Eu 151.97 1.1 | Gadolinium 64 Gd 157.25 1.2 | Terbium 65 Tb 158.93 1.1 | Dysprosium 66 Dy 162.50 1.2 | Holmium 67 Ho 164.93 1.2 | Erbium 68 Er 167.26 1.2 | Thulium 69 Tm 168.93 1.3 | Ytterbium 70 Yb 173.04 1.1 |
| Actinium 89 Ac (227) 5f 1.1 | Thorium 90 Th 232.04 1.3 | Protactinium 91 Pa 231.04 1.5 | Uranium 92 U 238.03 1.4 | Neptunium 93 Np (237) 1.4 | Plutonium 94 Pu (244) 1.3 | Americium 95 Am (243) 1.3 | Curium 96 Cm (247) 1.3 | Berkelium 97 Bk (247) 1.3 | Californium 98 Cf (251) 1.3 | Einsteinium 99 Es (252) 1.3 | Fermium 100 Fm (257) 1.3 | Mendelevium 101 Md (258) 1.3 | Nobelium 102 No (259) 1.3 |