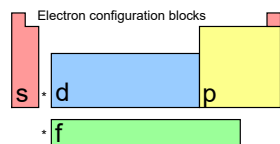


Periodic Table of the Elements

Group 1	2	13	14	15	16	17	18
Period 1	1.008 1312.0 2.20 1s ¹ H Hydrogen						4.0026 2372.3 1s ² He Helium
2	6.94 520.2 0.98 1s ² 2s ¹ Li Lithium	9.0122 890.5 1.57 1s ² 2s ² Be Beryllium					
3	22.990 495.8 0.93 [Ne] 3s ¹ Na Sodium	24.305 737.7 1.31 [Ne] 4s ² Mg Magnesium					
4	39.098 418.8 0.82 [Ar] 4s ¹ K Potassium	40.078 589.8 1.00 [Ar] 4s ² Ca Calcium					
5	85.468 403.0 0.82 [Kr] 5s ¹ Rb Rubidium	87.62 549.5 0.95 [Kr] 5s ² Sr Strontium					
6	132.91 375.7 0.79 [Xe] 6s ¹ Cs Caesium	137.33 502.9 0.89 [Xe] 6s ² Ba Barium					
7	(223) 380.0 0.70 [Rn] 7s ¹ Fr Francium	(226) 509.3 0.90 [Rn] 7s ² Ra Radium					

3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
44.956 633.1 1.36 [Ar] 3d ¹ 4s ² Sc Scandium	47.867 658.8 1.54 [Ar] 3d ² 4s ² Ti Titanium	50.942 650.9 1.63 [Ar] 3d ³ 4s ² V Vanadium	51.996 652.9 1.66 [Ar] 3d ⁴ 4s ² Cr Chromium	54.938 717.3 1.55 [Ar] 3d ⁵ 4s ² Mn Manganese	55.845 762.5 1.83 [Ar] 3d ⁶ 4s ² Fe Iron	58.933 760.4 1.91 [Ar] 3d ⁷ 4s ² Co Cobalt	58.693 737.1 1.88 [Ar] 3d ⁸ 4s ² Ni Nickel	63.546 745.5 1.90 [Ar] 3d ⁹ 4s ² Cu Copper	65.38 906.4 1.65 [Ar] 3d ¹⁰ 4s ² Zn Zinc	69.723 578.8 1.81 [Ne] 3s ² 3p ¹ Al Aluminium	72.630 762.0 2.01 [Ne] 3s ² 3p ² Si Silicon	74.922 762.0 2.18 [Ne] 3s ² 3p ³ P Phosphorus	78.971 941.0 2.55 [Ne] 3s ² 3p ⁴ S Sulfur	79.904 1139.9 2.96 [Ne] 3s ² 3p ⁵ Cl Chlorine	83.798 1520.8 3.16 [Ne] 3s ² 3p ⁶ Ar Argon
88.906 600.0 1.22 [Kr] 4d ¹ 5s ² Y Yttrium	91.224 640.1 1.33 [Kr] 4d ² 5s ² Zr Zirconium	92.906 652.1 1.60 [Kr] 4d ³ 5s ² Nb Niobium	95.95 684.3 2.16 [Kr] 4d ⁴ 5s ² Mo Molybdenum	(98) 702.0 1.90 [Kr] 4d ⁵ 5s ² Tc Technetium	101.07 710.2 2.20 [Kr] 4d ⁶ 5s ² Ru Ruthenium	102.91 719.7 2.28 [Kr] 4d ⁷ 5s ² Rh Rhodium	106.42 804.4 2.20 [Kr] 4d ⁸ 5s ² Pd Palladium	107.87 731.0 1.93 [Kr] 4d ⁹ 5s ² Ag Silver	112.41 867.8 1.69 [Kr] 4d ¹⁰ 5s ² Cd Cadmium	114.82 588.3 1.78 [Kr] 4d ¹⁰ 5s ² 5p ¹ In Indium	118.71 706.8 1.96 [Kr] 4d ¹⁰ 5s ² 5p ² Sn Tin	121.76 834.0 2.05 [Kr] 4d ¹⁰ 5s ² 5p ³ Sb Antimony	127.60 869.3 2.10 [Kr] 4d ¹⁰ 5s ² 5p ⁴ Te Tellurium	126.90 1008.4 2.66 [Kr] 4d ¹⁰ 5s ² 5p ⁵ I Iodine	131.29 1170.4 3.00 [Kr] 4d ¹⁰ 5s ² 5p ⁶ Xe Xenon
174.97 523.5 1.27 [Xe] 4f ¹⁴ 5d ¹ 6s ² Lu Lutetium	178.49 658.5 1.30 [Xe] 4f ¹⁴ 5d ² 6s ² Hf Hafnium	180.95 761.0 1.50 [Xe] 4f ¹⁴ 5d ³ 6s ² Ta Tantalum	183.84 770.0 2.36 [Xe] 4f ¹⁴ 5d ⁴ 6s ² W Tungsten	186.21 760.0 1.90 [Xe] 4f ¹⁴ 5d ⁵ 6s ² Re Rhenium	190.23 840.0 2.20 [Xe] 4f ¹⁴ 5d ⁶ 6s ² Os Osmium	192.22 880.0 2.20 [Xe] 4f ¹⁴ 5d ⁷ 6s ² Ir Iridium	195.08 870.0 2.28 [Xe] 4f ¹⁴ 5d ⁸ 6s ² Pt Platinum	196.97 890.1 2.54 [Xe] 4f ¹⁴ 5d ⁹ 6s ² Au Gold	200.59 1007.1 2.00 [Xe] 4f ¹⁴ 5d ¹⁰ 6s ² Hg Mercury	204.38 589.4 1.62 [Xe] 4f ¹⁴ 5d ¹⁰ 6s ² 6p ¹ Tl Thallium	207.2 715.6 2.33 [Xe] 4f ¹⁴ 5d ¹⁰ 6s ² 6p ² Pb Lead	208.98 703.0 2.02 [Xe] 4f ¹⁴ 5d ¹⁰ 6s ² 6p ³ Bi Bismuth	(210) 812.1 2.00 [Xe] 4f ¹⁴ 5d ¹⁰ 6s ² 6p ⁴ Po Polonium	(210) 890.0 2.20 [Xe] 4f ¹⁴ 5d ¹⁰ 6s ² 6p ⁵ At Astatine	(220) 1037.0 3.00 [Xe] 4f ¹⁴ 5d ¹⁰ 6s ² 6p ⁶ Rn Radon
(262) 470.0 [Rn] 5f ¹⁴ 7s ² 7p ¹ Lr Lawrencium	(261) 580.0 [Rn] 5f ¹⁴ 6d ² 7s ² Rf Rutherfordium	(262) [Rn] 5f ¹⁴ 6d ³ 7s ² Db Dubnium	(266) [Rn] 5f ¹⁴ 6d ⁴ 7s ² Sg Seaborgium	(264) [Rn] 5f ¹⁴ 6d ⁵ 7s ² Bh Bohrium	(277) [Rn] 5f ¹⁴ 6d ⁶ 7s ² Hs Hassium	(268) [Rn] 5f ¹⁴ 6d ⁷ 7s ² Mt Meitnerium	(271) [Rn] 5f ¹⁴ 6d ⁸ 7s ² Ds Darmstadtium	(272) [Rn] 5f ¹⁴ 6d ⁹ 7s ² Rg Roentgenium	(285) [Rn] 5f ¹⁴ 6d ¹⁰ 7s ² Cn Copernicium	(284) [Rn] 5f ¹⁴ 6d ¹⁰ 7s ² 7p ¹ Nh Nihonium	(289) [Rn] 5f ¹⁴ 6d ¹⁰ 7s ² 7p ² Fl Flerovium	(288) [Rn] 5f ¹⁴ 6d ¹⁰ 7s ² 7p ³ Mc Moscovium	(292) [Rn] 5f ¹⁴ 6d ¹⁰ 7s ² 7p ⁴ Lv Livermorium	(294) [Rn] 5f ¹⁴ 6d ¹⁰ 7s ² 7p ⁵ Ts Tennessine	(294) [Rn] 5f ¹⁴ 6d ¹⁰ 7s ² 7p ⁶ Og Oganesson



- Notes
- 1 kJ/mol = 0.0103636 eV
 - all elements are implied to have an oxidation state of zero.

by Robert Campion / updated 2016, 2018

alkali metals
 alkaline earth metals
 lanthanides
 transition metals
 unknown properties
 post-transition metals
 metalloids
 reactive nonmetals
 noble gases

actinides