Periodic Table of the Elements

Period	Group 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	1.008 1312.0 2.20 **1** **H** Hydrogen $1s^1$																	4.0026 2372.3 **2** **He** Helium $1s^2$
2	6.94 520.2 0.98 **3** **Li** Lithium $1s^2 2s^1$	9.0122 899.5 1.57 **4** **Be** Beryllium $1s^2 2s^2$											10.81 800.6 2.04 **5** **B** Boron $1s^2 2s^2 2p^1$	12.011 1086.5 2.55 **6** **C** Carbon $1s^2 2s^2 2p^2$	14.007 1402.3 3.04 **7** **N** Nitrogen $1s^2 2s^2 2p^3$	15.999 1313.9 3.44 **8** **O** Oxygen $1s^2 2s^2 2p^4$	18.998 1681.0 3.98 **9** **F** Fluorine $1s^2 2s^2 2p^5$	20.180 2080.7 **10** **Ne** Neon $1s^2 2s^2 2p^6$
3	22.990 495.8 0.93 **11** **Na** Sodium [Ne] $3s^1$	24.305 737.7 1.31 **12** **Mg** Magnesium [Ne] $3s^2$											26.982 577.5 1.61 **13** **Al** Aluminium [Ne] $3s^2 3p^1$	28.085 786.5 1.90 **14** **Si** Silicon [Ne] $3s^2 3p^2$	30.974 1011.8 2.19 **15** **P** Phosphorus [Ne] $3s^2 3p^3$	32.06 999.6 2.58 **16** **S** Sulfur [Ne] $3s^2 3p^4$	35.45 1251.2 3.16 **17** **Cl** Chlorine [Ne] $3s^2 3p^5$	39.948 1520.6 **18** **Ar** Argon [Ne] $3s^2 3p^6$
4	39.098 418.8 0.82 **19** **K** Potassium [Ar] $4s^1$	40.078 589.8 1.00 **20** **Ca** Calcium [Ar] $4s^2$	44.956 633.1 1.36 **21** **Sc** Scandium [Ar] $3d^1 4s^2$	47.867 658.8 1.54 **22** **Ti** Titanium [Ar] $3d^2 4s^2$	50.942 650.9 1.63 **23** **V** Vanadium [Ar] $3d^3 4s^2$	51.996 652.9 1.66 **24** **Cr** Chromium [Ar] $3d^5 4s^1$	54.938 717.3 1.55 **25** **Mn** Manganese [Ar] $3d^5 4s^2$	55.845 762.5 1.83 **26** **Fe** Iron [Ar] $3d^6 4s^2$	58.933 760.4 1.91 **27** **Co** Cobalt [Ar] $3d^7 4s^2$	58.693 737.1 1.88 **28** **Ni** Nickel [Ar] $3d^8 4s^2$	63.546 745.5 1.90 **29** **Cu** Copper [Ar] $3d^{10} 4s^1$	65.38 906.4 1.65 **30** **Zn** Zinc [Ar] $3d^{10} 4s^2$	69.723 578.8 1.81 **31** **Ga** Gallium [Ar] $3d^{10} 4s^2 4p^1$	72.630 762.0 2.01 **32** **Ge** Germanium [Ar] $3d^{10} 4s^2 4p^2$	74.922 947.0 2.18 **33** **As** Arsenic [Ar] $3d^{10} 4s^2 4p^3$	78.971 941.0 2.55 **34** **Se** Selenium [Ar] $3d^{10} 4s^2 4p^4$	79.904 1139.9 2.96 **35** **Br** Bromine [Ar] $3d^{10} 4s^2 4p^5$	83.798 1350.8 3.00 **36** **Kr** Krypton [Ar] $3d^{10} 4s^2 4p^6$
5	85.468 403.0 0.82 **37** **Rb** Rubidium [Kr] $5s^1$	87.62 549.5 0.95 **38** **Sr** Strontium [Kr] $5s^2$	88.906 600.0 1.22 **39** **Y** Yttrium [Kr] $4d^1 5s^2$	91.224 640.1 1.33 **40** **Zr** Zirconium [Kr] $4d^2 5s^2$	92.906 652.1 1.60 **41** **Nb** Niobium [Kr] $4d^4 5s^1$	95.95 684.3 2.16 **42** **Mo** Molybdenum [Kr] $4d^5 5s^1$	(98) 702.0 1.90 **43** **Tc** Technetium [Kr] $4d^5 5s^2$	101.07 710.2 2.20 **44** **Ru** Ruthenium [Kr] $4d^7 5s^1$	102.91 719.7 2.28 **45** **Rh** Rhodium [Kr] $4d^8 5s^1$	106.42 804.4 2.20 **46** **Pd** Palladium [Kr] $4d^{10}$	107.87 731.0 1.93 **47** **Ag** Silver [Kr] $4d^{10} 5s^1$	112.41 867.8 1.69 **48** **Cd** Cadmium [Kr] $4d^{10} 5s^2$	114.82 558.3 1.78 **49** **In** Indium [Kr] $4d^{10} 5s^2 5p^1$	118.71 708.6 1.96 **50** **Sn** Tin [Kr] $4d^{10} 5s^2 5p^2$	121.76 834.0 2.05 **51** **Sb** Antimony [Kr] $4d^{10} 5s^2 5p^3$	127.60 869.3 2.10 **52** **Te** Tellurium [Kr] $4d^{10} 5s^2 5p^4$	126.90 1008.4 2.66 **53** **I** Iodine [Kr] $4d^{10} 5s^2 5p^5$	131.29 1170.4 2.60 **54** **Xe** Xenon [Kr] $4d^{10} 5s^2 5p^6$
6	132.91 375.7 0.79 **55** **Cs** Caesium [Xe] $6s^1$	137.33 502.9 0.89 **56** **Ba** Barium [Xe] $6s^2$	* 174.97 523.5 1.27 **71** **Lu** Lutetium [Xe] $4f^{14} 5d^1 6s^2$	178.49 658.5 1.30 **72** **Hf** Hafnium [Xe] $4f^{14} 5d^2 6s^2$	180.95 761.0 1.50 **73** **Ta** Tantalum [Xe] $4f^{14} 5d^3 6s^2$	183.84 770.0 2.36 **74** **W** Tungsten [Xe] $4f^{14} 5d^4 6s^2$	186.21 760.0 1.90 **75** **Re** Rhenium [Xe] $4f^{14} 5d^5 6s^2$	190.23 840.0 2.20 **76** **Os** Osmium [Xe] $4f^{14} 5d^6 6s^2$	192.22 880.0 2.20 **77** **Ir** Iridium [Xe] $4f^{14} 5d^7 6s^2$	195.08 870.0 2.28 **78** **Pt** Platinum [Xe] $4f^{14} 5d^9 6s^1$	196.97 890.1 2.54 **79** **Au** Gold [Xe] $4f^{14} 5d^{10} 6s^1$	200.59 1007.1 2.00 **80** **Hg** Mercury [Xe] $4f^{14} 5d^{10} 6s^2$	204.38 589.4 1.62 **81** **Tl** Thallium [Xe] $4f^{14} 5d^{10} 6s^2 6p^1$	207.2 715.6 2.33 **82** **Pb** Lead [Xe] $4f^{14} 5d^{10} 6s^2 6p^2$	208.98 703.0 2.02 **83** **Bi** Bismuth [Xe] $4f^{14} 5d^{10} 6s^2 6p^3$	(210) 812.1 2.00 **84** **Po** Polonium [Xe] $4f^{14} 5d^{10} 6s^2 6p^4$	(210) 890.0 2.20 **85** **At** Astatine [Xe] $4f^{14} 5d^{10} 6s^2 6p^5$	(220) 1037.0 **86** **Rn** Radon [Xe] $4f^{14} 5d^{10} 6s^2 6p^6$
7	(223) 380.0 0.70 **87** **Fr** Francium [Rn] $7s^1$	(226) 509.3 0.90 **88** **Ra** Radium [Rn] $7s^2$	** (262) 470.0 **103** **Lr** Lawrencium [Rn] $5f^{14} 7s^2 7p^1$	(261) 580.0 **104** **Rf** Rutherfordium [Rn] $5f^{14} 6d^2 7s^2$	(262) **105** **Db** Dubnium [Rn] $5f^{14} 6d^3 7s^2$	(266) **106** **Sg** Seaborgium [Rn] $5f^{14} 6d^4 7s^2$	(264) **107** **Bh** Bohrium [Rn] $5f^{14} 6d^5 7s^2$	(277) **108** **Hs** Hassium [Rn] $5f^{14} 6d^6 7s^2$	(268) **109** **Mt** Meitnerium [Rn] $5f^{14} 6d^7 7s^2$	(271) **110** **Ds** Darmstadtium [Rn] $5f^{14} 6d^8 7s^2$	(272) **111** **Rg** Roentgenium [Rn] $5f^{14} 6d^9 7s^2$	(285) **112** **Cn** Copernicium [Rn] $5f^{14} 6d^{10} 7s^2$	(284) **113** **Nh** Nihonium [Rn] $5f^{14} 6d^{10} 7s^2 7p^1$	(289) **114** **Fl** Flerovium [Rn] $5f^{14} 6d^{10} 7s^2 7p^2$	(288) **115** **Mc** Moscovium [Rn] $5f^{14} 6d^{10} 7s^2 7p^3$	(292) **116** **Lv** Livermorium [Rn] $5f^{14} 6d^{10} 7s^2 7p^4$	(294) **117** **Ts** Tennessine [Rn] $5f^{14} 6d^{10} 7s^2 7p^5$	(294) **118** **Og** Oganesson [Rn] $5f^{14} 6d^{10} 7s^2 7p^6$

*	138.91 538.1 1.10 **57** **La** Lanthanum [Xe] $5d^1 6s^2$	140.12 534.4 1.12 **58** **Ce** Cerium [Xe] $4f^1 5d^1 6s^2$	140.91 527.0 1.13 **59** **Pr** Praseodymium [Xe] $4f^3 6s^2$	144.24 533.1 1.14 **60** **Nd** Neodymium [Xe] $4f^4 6s^2$	(145) 540.0 **61** **Pm** Promethium [Xe] $4f^5 6s^2$	150.36 544.5 1.17 **62** **Sm** Samarium [Xe] $4f^6 6s^2$	151.96 547.1 **63** **Eu** Europium [Xe] $4f^7 6s^2$	157.25 593.4 1.20 **64** **Gd** Gadolinium [Xe] $4f^7 5d^1 6s^2$	158.93 565.8 **65** **Tb** Terbium [Xe] $4f^9 6s^2$	162.50 573.0 1.22 **66** **Dy** Dysprosium [Xe] $4f^{10} 6s^2$	164.93 581.0 1.23 **67** **Ho** Holmium [Xe] $4f^{11} 6s^2$	167.25 589.3 1.24 **68** **Er** Erbium [Xe] $4f^{12} 6s^2$	168.93 596.7 1.25 **69** **Tm** Thulium [Xe] $4f^{13} 6s^2$	173.05 603.4 **70** **Yb** Ytterbium [Xe] $4f^{14} 6s^2$
**	(227) 499.0 1.10 **89** **Ac** Actinium [Rn] $6d^1 7s^2$	232.04 587.0 1.30 **90** **Th** Thorium [Rn] $6d^2 7s^2$	231.04 568.0 1.50 **91** **Pa** Protactinium [Rn] $5f^2 6d^1 7s^2$	238.03 597.6 1.38 **92** **U** Uranium [Rn] $5f^3 6d^1 7s^2$	(237) 604.5 1.36 **93** **Np** Neptunium [Rn] $5f^4 6d^1 7s^2$	(244) 584.7 1.28 **94** **Pu** Plutonium [Rn] $5f^6 7s^2$	(243) 578.0 1.30 **95** **Am** Americium [Rn] $5f^7 7s^2$	(247) 581.0 1.30 **96** **Cm** Curium [Rn] $5f^7 6d^1 7s^2$	(247) 601.0 1.30 **97** **Bk** Berkelium [Rn] $5f^9 7s^2$	(251) 608.0 1.30 **98** **Cf** Californium [Rn] $5f^{10} 7s^2$	(252) 619.0 1.30 **99** **Es** Einsteinium [Rn] $5f^{11} 6s^2$	(257) 627.0 1.30 **100** **Fm** Fermium [Rn] $5f^{12} 7s^2$	(258) 635.0 1.30 **101** **Md** Mendelevium [Rn] $5f^{13} 7s^2$	(259) 642.0 1.30 **102** **No** Nobelium [Rn] $5f^{14} 7s^2$

standard atomic weight or most stable mass number — 55.845
atomic number — 26
1st ionization energy in kJ/mol — 762.5
electronegativity — 1.83
chemical symbol — Fe
name — Iron
electron configuration — [Ar] $3d^6 4s^2$
oxidation states (most common are bold) — +6, +5, +4, **+3**, **+2**, +1, -1, -2
radioactive elements have masses in parenthesis

Electron configuration blocks: s, d, p, f

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

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