Periodic Table of the Elements

1 2.20 $1s$ **H** Hydrogen 1.00784– 1.00811																	**2** $1s$ **He** Helium 4.002602(2)
3 0.98 $2s$ **Li** Lithium 6.938–6.997	**4** 1.57 $2s$ **Be** Beryllium 9.0121831(5)											**5** 2.04 $2p$ **B** Boron 10.806–10.821	**6** 2.55 $2p$ **C** Carbon 12.0096– 12.0116	**7** 3.04 $2p$ **N** Nitrogen 14.00643– 14.00728	**8** 3.44 $2p$ **O** Oxygen 15.99903– 15.99977	**9** 3.98 $2p$ **F** Fluorine 18.998403163(6)	**10** $2p$ **Ne** Neon 20.1797(6)
11 0.93 $3s$ **Na** Sodium 22.98976928(2)	**12** 1.31 $3s$ **Mg** Magnesium 24.304–24.307											**13** 1.61 $3p$ **Al** Aluminium 26.9815385(7)	**14** 1.90 $3p$ **Si** Silicon 28.084–28.086	**15** 2.19 $3p$ **P** Phosphorus 30.973761998(5)	**16** 2.58 $3p$ **S** Sulphur 32.059–32.076	**17** 3.16 $3p$ **Cl** Chlorine 35.446–35.457	**18** $3p$ **Ar** Argon 39.948(1)
19 0.82 $4s$ **K** Potassium 39.0983(1)	**20** 1.00 $4s$ **Ca** Calcium 40.078(4)	**21** 1.36 $3d$ **Sc** Scandium 44.955908(5)	**22** 1.54 $3d$ **Ti** Titanium 47.867(1)	**23** 1.63 $3d$ **V** Vanadium 50.9415(1)	**24** 1.66 $3d^*$ **Cr** Chromium 51.9961(6)	**25** 1.55 $3d$ **Mn** Manganese 54.938044(3)	**26** 1.83 $3d$ **Fe** Iron 55.845(2)	**27** 1.88 $3d$ **Co** Cobalt 58.933194(4)	**28** 1.91 $3d$ **Ni** Nickel 58.6934(4)	**29** 1.90 $3d^*$ **Cu** Copper 63.546(3)	**30** 1.65 $3d$ **Zn** Zinc 65.38(2)	**31** 1.81 $4p$ **Ga** Gallium 69.723(1)	**32** 2.01 $4p$ **Ge** Germanium 72.630(8)	**33** 2.18 $4p$ **As** Arsenic 74.921595(6)	**34** 2.55 $4p$ **Se** Selenium 78.971(8)	**35** 2.96 $4p$ **Br** Bromine 79.901–79.907	**36** 3.00 $4p$ **Kr** Krypton 83.798(2)
37 0.82 $5s$ **Rb** Rubidium 85.4678(3)	**38** 0.95 $5s$ **Sr** Strontium 87.62(1)	**39** 1.22 $4d$ **Y** Yttrium 88.90584(2)	**40** 1.33 $4d$ **Zr** Zirconium 91.224(2)	**41** 1.6 $4d^*$ **Nb** Niobium 92.90637(2)	**42** 2.16 $4d^*$ **Mo** Molybdenum 95.95(1)	**43** 1.9 $4d$ **Tc** Technetium (98)	**44** 2.2 $4d^*$ **Ru** Ruthenium 101.07(2)	**45** 2.28 $4d^*$ **Rh** Rhodium 102.90550(2)	**46** 2.20 $4d^*$ **Pd** Palladium 106.42(1)	**47** 1.93 $4d^*$ **Ag** Silver 107.8682(2)	**48** 1.69 $4d$ **Cd** Cadmium 112.414(4)	**49** 1.78 $5p$ **In** Indium 114.818(1)	**50** 1.96 $5p$ **Sn** Tin 118.710(7)	**51** 2.05 $5p$ **Sb** Antimony 121.760(1)	**52** 2.1 $5p$ **Te** Tellurium 127.60(3)	**53** 2.66 $5p$ **I** Iodine 126.90447(3)	**54** 2.60 $5p$ **Xe** Xenon 131.293(6)
55 0.79 $6s$ **Cs** Cesium 132.90545196(6)	**56** 0.89 $6s$ **Ba** Barium 137.327(7)	**57-71** * Lanthanides	**72** 1.3 $5d$ **Hf** Halfnium 178.49(2)	**73** 1.5 $5d$ **Ta** Tantalum 180.94788(2)	**74** 2.36 $5d$ **W** Tungsten 183.84(1)	**75** 1.9 $5d$ **Re** Rhenium 186.207(1)	**76** 2.2 $5d$ **Os** Osmium 190.23(3)	**77** 2.20 $5d$ **Ir** Iridium 192.217(3)	**78** 2.28 $5d^*$ **Pt** Platinum 195.084(9)	**79** 2.54 $5d^*$ **Au** Gold 196.966569(5)	**80** 2.00 $5d$ **Hg** Mercury 200.592(3)	**81** 1.62 $6p$ **Tl** Thallium 204.382– 204.385	**82** 1.87 $6p$ **Pb** Lead 207.2(1)	**83** 2.02 $6p$ **Bi** Bismuth 208.98040(1)	**84** 2.0 $6p$ **Po** Polonium (209)	**85** 2.2 $6p$ **At** Astatine (210)	**86** 2.2 $6p$ **Rn** Radon (222)
87 0.7 $7s$ **Fr** Francium (223)	**88** 0.9 $7s$ **Ra** Radium (226)	**89-103** ** Actinides	**104** $6d$ **Rf** Rutherfordium (261)	**105** $6d$ **Db** Dubnium (268)	**106** $6d$ **Sg** Seaborgium (269)	**107** $6d$ **Bh** Bohrium (270)	**108** $6d$ **Hs** Hassium (269)	**109** $6d$ **Mt** Meitnerium (278)	**110** $6d$ **Ds** Darmstadtium (281)	**111** $6d$ **Rg** Roentgenium (282)	**112** $6d$ **Cn** Copernicium (285)	**113** $7p$ **Nh** Nihonium (286)	**114** $7p$ **Fl** Flerovium (289)	**115** $7p$ **Mc** Moscovium (289)	**116** $7p$ **Lv** Livermorium (293)	**117** $7p$ **Ts** Tennessine (294)	**118** $7p$ **Og** Oganesson (294)

*	**57** 1.1 $5d^*$ **La** Lanthanum 138.90547(7)	**58** 1.12 $4f^*$ **Ce** Cerium 140.116(1)	**59** 1.13 $4f$ **Pr** Praseodymium 140.90766(2)	**60** 1.14 $4f$ **Nd** Neodymium 144.242(3)	**61** 1.13 $4f$ **Pm** Promethium (145)	**62** 1.17 $4f$ **Sm** Samarium 150.36(2)	**63** 1.2 $4f$ **Eu** Europium 151.964(1)	**64** 1.2 $4f^*$ **Gd** Gadolinium 157.25(3)	**65** 1.1 $4f$ **Tb** Terbium 158.92535(2)	**66** 1.22 $4f$ **Dy** Dysprosium 162.500(1)	**67** 1.23 $4f$ **Ho** Holmium 164.93033(2)	**68** 1.24 $4f$ **Er** Erbium 167.259(3)	**69** 1.25 $4f$ **Tm** Thulium 168.93422(2)	**70** 1.1 $4f$ **Yb** Ytterbium 173.045(10)	**71** 1.27 $4f$ **Lu** Lutetium 174.9668(1)
**	**89** 1.1 $6d^*$ **Ac** Actinium (227)	**90** 1.3 $5f^*$ **Th** Thorium 232.0377(4)	**91** 1.5 $5f^*$ **Pa** Protactinium 231.03588(2)	**92** 1.38 $5f^*$ **U** Uranium 238.02891(3)	**93** 1.36 $5f^*$ **Np** Neptunium (237)	**94** 1.28 $5f$ **Pu** Plutonium (244)	**95** 1.13 $5f$ **Am** Americium (243)	**96** 1.28 $5f^*$ **Cm** Curium (247)	**97** 1.3 $5f$ **Bk** Berkelium (247)	**98** 1.3 $5f$ **Cf** Californium (251)	**99** 1.3 $5f$ **Es** Einsteinium (252)	**100** 1.3 $5f$ **Fm** Fermium (257)	**101** 1.3 $5f$ **Md** Mendelevium (258)	**102** 1.3 $5f$ **No** Nobelium (259)	**103** 1.3 $5f$ **Lr** Lawrencium (266)

Z eneg ss
Sy
Name
saw

Z = atomic number; eneg = electronegativity; ss = subshell;
Sy = Symbol, Name = element name, saw = standard atomic weight

Standard atomic weights taken from the Commission on Isotopic Abundances and Atomic Weights (ciaaw.org/atomic-weights.htm). Adapted from Ivan Griffin's LaTeX Periodic Table.

An asterisk (*) next to a subshell indicates an anomalous (Aufbau rule-breaking) ground state electron configuration.