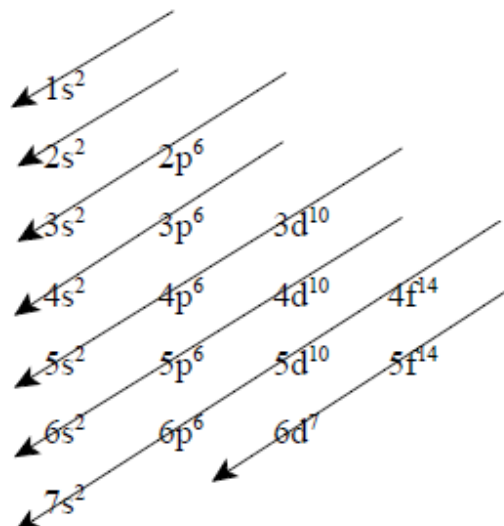


1 1A 1 H Hydrogen 1.01 2 2A 2 He Helium 4.00 3 3A 5 B Boron 10.81 4 4A 6 C Carbon 12.01 5 5A 7 N Nitrogen 14.01 6 6A 8 O Oxygen 16.00 7 7A 9 F Fluorine 19.00 8 8A 10 Ne Neon 20.18																	
11 11A 11 Na Sodium 22.99 12 12A 12 Mg Magnesium 24.31																	
13 3B 21 Sc Scandium 44.96 14 4B 22 Ti Titanium 47.87 15 5B 23 V Vanadium 50.94 16 6B 24 Cr Chromium 52.00 17 7B 25 Mn Manganese 54.94 18 8B 26 Fe Iron 55.85 19 9B 27 Co Cobalt 58.93 20 10B 28 Ni Nickel 58.69 21 11B 29 Cu Copper 63.55 22 12B 30 Zn Zinc 65.39 23 13B 31 Ga Gallium 69.72 24 14B 32 Ge Germanium 72.61 25 15B 33 As Arsenic 74.92 26 16B 34 Se Selenium 78.96 27 17B 35 Br Bromine 79.90 28 18B 36 Kr Krypton 83.80																	
37 1A 37 Rb Rubidium 85.47 38 2A 38 Sr Strontium 87.62 39 3B 39 Y Yttrium 88.91 40 4B 40 Zr Zirconium 91.22 41 5B 41 Nb Niobium 92.91 42 6B 42 Mo Molybdenum 95.94 43 7B 43 Tc Technetium (98) 44 8B 44 Ru Ruthenium 101.07 45 9B 45 Rh Rhodium 102.91 46 10B 46 Pd Palladium 106.42 47 11B 47 Ag Silver 107.87 48 12B 48 Cd Cadmium 112.41 49 13B 49 In Indium 114.82 50 14B 50 Sn Tin 118.71 51 15B 51 Sb Antimony 121.76 52 16B 52 Te Tellurium 127.60 53 17B 53 I Iodine 126.90 54 18B 54 Xe Xenon 131.29																	
55 1A 55 Cs Cesium 132.91 56 2A 56 Ba Barium 137.33 57 3B 57 La Lanthanum 138.91 72 4B 72 Hf Hafnium 178.49 73 5B 73 Ta Tantalum 180.95 74 6B 74 W Tungsten 183.84 75 7B 75 Re Rhenium 186.21 76 8B 76 Os Osmium 190.23 77 9B 77 Ir Iridium 192.22 78 10B 78 Pt Platinum 195.08 79 11B 79 Au Gold 196.97 80 12B 80 Hg Mercury 200.59 81 13B 81 Tl Thallium 204.38 82 14B 82 Pb Lead 207.2 83 15B 83 Bi Bismuth 208.98 84 16B 84 Po Polonium (209) 85 17B 85 At Astatine (210) 86 18B 86 Rn Radon (222)																	
87 1A 87 Fr Francium (223) 88 2A 88 Ra Radium (226) 89 3B 89 Ac Actinium (227) 104 4B 104 Rf Rutherfordium (261) 105 5B 105 Db Dubnium (262) 106 6B 106 Sg Seaborgium (266) 107 7B 107 Bh Bohrium (264) 108 8B 108 Hs Hassium (269) 109 9B 109 Mt Meitnerium (268)																	
58 3B 58 Ce Cerium 140.12 59 4B 59 Pr Praseodymium 140.91 60 5B 60 Nd Neodymium 144.24 61 6B 61 Pm Promethium (145) 62 7B 62 Sm Samarium 150.36 63 8B 63 Eu Europium 151.96 64 9B 64 Gd Gadolinium 157.25 65 10B 65 Tb Terbium 158.93 66 11B 66 Dy Dysprosium 162.50 67 12B 67 Ho Holmium 164.93 68 13B 68 Er Erbium 167.26 69 14B 69 Tm Thulium 168.93 70 15B 70 Yb Ytterbium 173.04 71 16B 71 Lu Lutetium 174.97																	
90 17B 90 Th Thorium 232.04 91 18B 91 Pa Protactinium 231.04 92 19B 92 U Uranium 238.03 93 20B 93 Np Neptunium (237) 94 21B 94 Pu Plutonium (244) 95 22B 95 Am Americium (243) 96 23B 96 Cm Curium (247) 97 24B 97 Bk Berkelium (247) 98 25B 98 Cf Californium (251) 99 26B 99 Es Einsteinium (252) 100 27B 100 Fm Fermium (257) 101 28B 101 Md Mendelevium (258) 102 29B 102 No Nobelium (259) 103 30B 103 Lr Lawrencium (262)																	

* If this number is in parentheses, then it refers to the atomic mass of the most stable isotope.

Table A**Prefixes for Molecular
Compound Naming**

1	mono-
2	di-
3	tri-
4	tetra-
5	penta-
6	hexa-
7	hepta-
8	octo-

Table B**Aufbau Diagram****Table C****Metric Prefixes**

kilo- (k_)	hecto- (h_)	deka- (dk_)	g m L	deci- (d_)	centi- (c_)	milli- (m_)
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Table D**Selected Polyatomic Ions**

Formula	Name	Formula	Name
H ₃ O ⁺	hydronium	CrO ₄ ²⁻	chromate
NH ₄ ⁺	ammonium	Cr ₂ O ₇ ²⁻	dichromate
C ₂ H ₃ O ₂ ⁻	acetate	MnO ₄ ⁻	permanganate
CN ⁻	cyanide	NO ₂ ⁻	nitrite
CO ₃ ²⁻	carbonate	NO ₃ ⁻	nitrate
HCO ₃ ⁻	bicarbonate	OH ⁻	hydroxide
C ₂ O ₄ ²⁻	oxalate	PO ₄ ³⁻	phosphate
ClO ⁻	hypochlorite	SCN ⁻	thiocyanate
ClO ₂ ⁻	chlorite	SO ₃ ²⁻	sulfite
ClO ₃ ⁻	chlorate	SO ₄ ²⁻	sulfate
ClO ₄ ⁻	perchlorate	S ₂ O ₃ ²⁻	thiosulfate