

1	1A											13	14	15	16	17	18	
1	H Hydrogen 1.01											B Boron 10.81	C Carbon 12.01	N Nitrogen 14.01	O Oxygen 16.00	F Fluorine 19.00	Ne Neon 20.18	
2	Li Lithium 6.94	Be Beryllium 9.01											Al Aluminum 26.98	Si Silicon 28.09	P Phosphorus 30.97	S Sulfur 32.07	Cl Chlorine 35.45	Ar Argon 39.95
3	Na Sodium 22.99	Mg Magnesium 24.31	3	4	5	6	7	8	9	10	11	12	Ga Gallium 69.72	Ge Germanium 72.61	As Arsenic 74.92	Se Selenium 78.96	Br Bromine 79.90	Kr Krypton 83.80
4	K Potassium 39.10	Ca Calcium 40.08	Sc Scandium 44.96	Ti Titanium 47.87	V Vanadium 50.94	Cr Chromium 52.00	Mn Manganese 54.94	Fe Iron 55.85	Co Cobalt 58.93	Ni Nickel 58.69	Cu Copper 63.55	Zn Zinc 65.39	Ga Gallium 69.72	Ge Germanium 72.61	As Arsenic 74.92	Se Selenium 78.96	Br Bromine 79.90	Kr Krypton 83.80
5	Rb Rubidium 85.47	Sr Strontium 87.62	Y Yttrium 88.91	Zr Zirconium 91.22	Nb Niobium 92.91	Mo Molybdenum 95.94	Tc Technetium (98)	Ru Ruthenium 101.07	Rh Rhodium 102.91	Pd Palladium 106.42	Ag Silver 107.87	Cd Cadmium 112.41	In Indium 114.82	Sn Tin 118.71	Sb Antimony 121.76	Te Tellurium 127.60	I Iodine 126.90	Xe Xenon 131.29
6	Cs Cesium 132.91	Ba Barium 137.33	La Lanthanum 138.91	Hf Hafnium 178.49	Ta Tantalum 180.95	W Tungsten 183.84	Re Rhenium 186.21	Os Osmium 190.23	Ir Iridium 192.22	Pt Platinum 195.08	Au Gold 196.97	Hg Mercury 200.59	Tl Thallium 204.38	Pb Lead 207.2	Bi Bismuth 208.98	Po Polonium (209)	At Astatine (210)	Rn Radon (222)
7	Fr Francium (223)	Ra Radium (226)	Ac Actinium (227)	Rf Rutherfordium (261)	Db Dubnium (262)	Sg Seaborgium (266)	Bh Bohrium (264)	Hs Hassium (269)	Mt Meitnerium (268)									

Key

11 — Atomic number
Na — Element symbol
 Sodium — Element name
 22.99 — Average atomic mass*

Name of Polyatomic Ion		Ion Formula	Ionic Charge
nitrate		NO_3^-	-1
chlorate		ClO_3^-	
hydroxide		OH^-	
hydrogen carbonate ion (aka bicarbonate ion)		HCO_3^-	
acetate		$\text{C}_2\text{H}_3\text{O}_2^- / \text{CH}_3\text{COO}^-$	
permanganate		MnO_4^-	
cyanide		CN^-	
carbonate		CO_3^{2-}	-2
sulfate		SO_4^{2-}	
phosphate		PO_4^{3-}	-3
ammonium		NH_4^+	+1

Element	Ion	Ionic Charge
copper	Cu^+	1+ or 2+
	Cu^{2+}	
mercury	Hg^+	
	Hg^{2+}	
gold	Au^+	1+ or 3+
	Au^{3+}	
iron	Fe^{2+}	2+ or 3+
	Fe^{3+}	
lead	Pb^{2+}	2+ or 4+
	Pb^{4+}	
tin	Sn^{2+}	
	Sn^{4+}	

