

COMMON POLYATOMIC IONS:

-1	-2	-3
acetate $C_2H_3O_2^{-1}$	borate $B_4O_7^{-2}$	arsenate AsO_4^{-3}
amide NH_2^{-1}	carbonate CO_3^{-2}	nitride N^{-3}
astatate AtO_3^{-1}	chromate CrO_4^{-2}	citrate $C_6H_5O_7^{-3}$
azide N_3^{-1}	dichromate $Cr_2O_7^{-2}$	ferricyanide $Fe(CN)_6^{-3}$
bismuthate BiO_3^{-1}	fumarate $C_4H_2O_4^{-2}$	phosphate PO_4^{-3}
bicarbonate HCO_3^{-1}	hexafluorosilicate SiF_6^{-2}	phosphide P^{-3}
bisulfate HSO_4^{-1}	maleate $C_4H_2O_4^{-2}$	tetraborate $B_4O_7^{-3}$
bromate BrO_3^{-1}	metasilicate SiO_3^{-2}	
chlorate ClO_3^{-1}	molybdate MoO_4^{-2}	-4
chlorite ClO_2^{-1}	oxalate $C_2O_4^{-2}$	ferrocyanide $Fe(CN)_6^{-4}$
cyanate OCN^{-1}	peroxide O_2^{-2}	orthosilicate SiO_4^{-4}
cyanide CN^{-1}	peroxydisulfate $S_2O_8^{-2}$	pyroarsenate AsO_4^{-4}
formate CHO_3^{-1}	stannate SnO_3^{-2}	pyrophosphate $P_2O_7^{-4}$
hydroxide OH^{-1}	selenate SeO_4^{-2}	silicate SiO_4^{-4}
iodate IO_3^{-1}	succinate $C_4H_6O_4^{-2}$	+1
lactate $C_3H_5O_3^{-1}$	sulfate SO_4^{-2}	ammonium NH_4^{+1}
nitrate NO_3^{-1}	tartrate $C_4H_4O_6^{-2}$	phosphonium PH_4^{+1}
manganate MnO_3^{-1}	tellurate TeO_4^{-2}	
metaphosphate PO_3^{-1}	thiocyanate SCN^{-2}	
propionate $C_3H_5O_3^{-1}$	thiosulfate $S_2O_3^{-2}$	
salicylate $C_7H_5O_3^{-1}$	tungstate WO_4^{-2}	
stearate $C_{18}H_{35}O_2^{-1}$		
sulfamate $NH_2SO_3^{-1}$		
thiocyanide SCN^{-1}		
vanadate VO_3^{-1}		

NOTE:		
<i>-ite</i> one less oxygen than <i>-ate</i>	<i>hypo . . . ite</i> two less oxygen than <i>-ate</i>	<i>per . . . ate</i> one more oxygen than <i>-ate</i>

COMMON ACIDS:	
Acetic:	$HC_2H_3O_2$
Carbonic:	H_2CO_3
Hydrochloric:	HCl
Hydrobromic:	HBr
Hydrofluoric:	HF
Nitric:	HNO_3
Sulfuric:	H_2SO_4
Phosphoric:	H_3PO_4

EQUATIONS:

$$D = \frac{m}{V} \qquad \text{Slope} = \frac{\Delta y}{\Delta x} \qquad K.E. = \frac{1}{2}mv^2 \qquad h = 6.626 \times 10^{-34} J \cdot s$$

$$E = h\nu \qquad M_a V_a = M_b V_b \qquad c = \lambda\nu \qquad c = 3.00 \times 10^8 \cdot m/s \qquad 1Hz = \frac{1}{sec}$$

$$E = -2.178 \times 10^{-18} \cdot J / photon \cdot \left(\frac{1}{n_f^2} - \frac{1}{n_i^2} \right) \qquad 1 \cdot atm = 760mm \cdot Hg = 760 \cdot torr = 101.3 \cdot kPa$$

$$PV = nRT \qquad R = 0.08205 \frac{L \cdot atm}{mol \cdot K} \cdot \text{or} \cdot R = 8.315 \frac{L \cdot kPa}{mol \cdot K} \qquad q = m \times \Delta T \times C_p$$