

Name: \_\_\_\_\_

**SCH 3U - Nomenclature Quiz #3**

Provide names or formula as required. If more than one name is possible, provide both the I.U.P.A.C. name and the OUS/IC name:

$K_2S$	potassium sulphide	lithium phosphate	$Li_3PO_4$
$K_2SO_4$	potassium sulphate	lead(II) perchlorate	$Pb(ClO_4)_2$
$K_2SO_3$	potassium sulphite	stannic chlorate	$Sn(ClO_3)_4$
$Na_3PO_4$	sodium phosphate	antimony(V) sulphide	$Sb_2S_5$
$Ag_2CO_3$	silver carbonate	cobaltic nitrate	$Co(NO_3)_3$
$Mg(NO_3)_2$	magnesium nitrate	iron(III) carbonate	$Fe_2(CO_3)_3$
$Cu(ClO_3)_2$	copper(II) chlorate	bismuth(V) chloride	$BiCl_5$
	cupric chlorate	sodium phosphite	$Na_3PO_3$
$NiSO_4$	nickel(II) sulphate	mercury(II) cyanide	$Hg(CN)_2$
	nickelous sulphate	iron(II) hypochlorite	$Fe(ClO)_2$
$Zn(ClO)_2$	zinc hypochlorite	carbon(IV) sulphide	$CS_2$
$V_2(CO_3)_5$	vanadium(V) carbonate	gold(III) sulphate	$Au_2(SO_4)_3$
$MnSO_3$	manganese(II) sulphite	phosphorous carbonate	$P_2(CO_3)_3$
$Fe(ClO_2)_2$	iron(II) chlorite	plumbic periodate	$Pb(IO_4)_4$
	ferrous chlorite	stannous hydroxide	$Sn(OH)_2$
$Au(NO_3)_3$	gold(III) nitrate	manganese(IV) oxide	$MnO_2$
	auric nitrate	gold(I) carbonate	$Au_2CO_3$
$Sc(NO_2)_3$	scandium nitrite	nitric oxide	$N_2O_5$
$CrSO_4$	chromium(II) sulphate	iron(III) sulphate	$Fe_2(SO_4)_3$
$Cr(SO_4)_3$	chromium(VI) sulphate	ammonium phosphate	$(NH_4)_3PO_4$

Fill in the following table to show the oxy-anions as learned in class. Be sure to show the formula of each ion, the charge carried by each ion and the correct name for each ion. In the last row along the bottom, show the three other polyatomic ions we have learned (formula charge and name).

					$\text{ClO}_4^{1-}$ perchlorate		$\text{IO}_4^{1-}$ periodate
$\text{CO}_3^{2-}$ carbonate	$\text{NO}_3^{1-}$ nitrate	$\text{PO}_4^{3-}$ phosphate	$\text{SO}_4^{2-}$ sulphate	$\text{ClO}_3^{1-}$ chlorate	$\text{BrO}_3^{1-}$ bromate	$\text{IO}_3^{1-}$ iodate	
	$\text{NO}_2^{1-}$ nitrite	$\text{PO}_3^{3-}$ phosphite	$\text{SO}_3^{2-}$ sulphite	$\text{ClO}_2^{1-}$ chlorite			
				$\text{ClO}^{1-}$ hypochlorite			
$\text{NH}_4^{1+} \rightarrow$ ammonium $\text{OH}^{1-} \rightarrow$ hydroxide $\text{CN}^{1-} \rightarrow$ cyanide							