ACTIVITY 1.3

Nomenclature

Worksheets

Name _____

Group _____

Worksheet I Binary Compounds and Binary Acids

1.	Al_2O_3	sodium sulfide	
2.	SiI_4	calcium bromide	
3.	AsF_3	barium sulfide	
4.	Cs_3N	phosphorus triiodide	
5.	SiO_2	sulfur trioxide	
6.	N_2O_5	aluminum selenide	
7.	LiCl	silicon disulfide	
8.	B_2S_3	carbon dioxide	
9.	K_2O	sodium oxide	
10.	PF_5	carbon monoxide	
11.	BeO	lithium fluoride	
12.	$SeCl_2$	boron trichloride	
13.	I_2O_7	lithium phosphide	
14.	BaI_2	diarsenic pentoxide	
15.	HCl(aq)	aluminum oxide	
16.	MgS	hydrofluoric acid	
17.	H_2S(aq)	strontium fluoride	
18.	Na_3N	potassium sulfide	
19.	OF_2	cesium telluride	
20.	HI(aq)	hydroselenic acid	

Name _____

Group _____

Worksheet II Stock Nomenclature

1. $HgSO_4$ _____	iron(II) sulfide _____
2. Cu_3P_2 _____	tin(II) oxalate _____
3. $Sn_3(PO_4)_2$ _____	copper(II) oxide _____
4. $Pb_3(PO_4)_2$ _____	iron(II) hydroxide _____
5. $Cu(ClO_3)_2$ _____	tin(IV) carbonate _____
6. $Fe_2(SO_4)_3$ _____	mercury(II) oxide _____
7. $Sn(SCN)_2$ _____	copper(I) sulfite _____
8. $Hg(NO_3)_2$ _____	copper(II) nitrate _____
9. $FePO_4$ _____	lead(II) nitrite _____
10. PbO_2 _____	lead(IV) iodide _____
11. $HgBr_2$ _____	iron(II) sulfide _____
12. $PbSO_4$ _____	mercury(I) oxide _____
13. Hg_2F_2 _____	copper(I) acetate _____
14. $Fe_2(SO_4)_3$ _____	lead(II) phosphate _____
15. HgO _____	tin(II) phosphide _____
16. CuI _____	iron(III) permanganate _____
17. $Sn(SO_4)_2$ _____	mercury(I) chloride _____
18. PbO _____	lead(II) fluoride _____
19. $Cu(OH)_2$ _____	copper(II) nitrate _____
20. $Fe(CN)_2$ _____	tin(IV) chloride _____

Name _____

Group _____

Worksheet III Polyatomic Nomenclature—Salts and Acids

1. $Mg(ClO_3)_2$ _____	sodium cyanide _____
2. Na_2SO_4 _____	lithium chlorate _____
3. $Mg(CN)_2$ _____	rubidium sulfate _____
4. Na_3PO_4 _____	ammonium thiocyanate _____
5. NaClO _____	beryllium cyanide _____
6. Rb_2CO_3 _____	calcium phosphate _____
7. $HNO_2(aq)$ _____	oxalic acid _____
8. $Cs_2C_2O_4$ _____	cesium carbonate _____
10. $BeCO_3$ _____	potassium dichromate _____
11. $HClO_3(aq)$ _____	ammonium acetate _____
12. $NaC_2H_3O_2$ _____	strontium chromate _____
13. $BaSO_3$ _____	sodium _____
14. $Mg(NO_2)_2$ _____	magnesium phosphate _____
15. $CaCO_3$ _____	acetic acid _____
16. $Al(OH)_3$ _____	lithium peroxide _____
17. $(NH_4)_2SO_4$ _____	potassium nitrite _____
18. $H_2SO_4(aq)$ _____	barium hydroxide _____
19. $Sr(ClO_3)_2$ _____	phosphoric acid _____
20. Na_2O _____	zinc hypochlorite _____

Name _____

Group _____

Worksheet IV Extra Nomenclature Exercises—Salts and Hydrates

Salts with Hydrogen Anions

1. $NaHSO_4$ _____ calcium monohydrogen phosphate _____
2. $Ba(H_2PO_4)_2$ _____ ammonium bicarbonate _____
3. K_2HPO_4 _____ zinc dihydrogen phosphate _____
4. $LiHCO_3$ _____ cesium hydrogen sulfate _____
5. $Ca(HSO_3)_2$ _____ magnesium bicarbonate _____
6. NH_4HSO_4 _____ sodium hydrogen sulfite _____
7. $PbHPO_4$ _____ rubidium dihydrogen phosphate _____
8. $Sn(H_2PO_4)_2$ _____ barium monohydrogen phosphate _____

Hydrates

1. $SnCl_4 \cdot H_2O$ _____ zinc acetate dihydrate _____
2. $BaI_2 \cdot H_2O$ _____ ammonium phosphate trihydrate _____
3. $NaC_2H_3O_2 \cdot 3H_2O$ _____ sodium hypochlorite _____
4. $CuSO_4 \cdot 5H_2O$ _____ barium nitrite _____
5. $NaIO_4 \cdot 3H_2O$ _____ calcium bromide _____
6. $HgSO_4 \cdot 2H_2O$ _____ iron(III) bromide hexahydrate _____
7. $Ca(ClO_2)_2 \cdot 3H_2O$ _____ lead(II) perchlorate trihydrate _____
8. $Na_3PO_4 \cdot 10H_2O$ _____ magnesium iodide octahydrate _____

Name _____

Group _____

Worksheet V Nomenclature Review

1. K_2S _____	lead(IV) perchlorate _____
2. $HNO_3(aq)$ _____	sodium hypochlorite _____
3. Al_2O_3 _____	perbromic acid _____
4. $Mg(NO_2)_2 \cdot 3H_2O$ _____	sodium oxalate _____
5. $Ca(IO)_2$ _____	silicon tetraiodide _____
6. P_4O_{10} _____	barium chloride _____
7. $H_2S(aq)$ _____	barium nitrite tetrahydrate _____
8. $H_2SO_3(aq)$ _____	calcium chromate _____
9. $FeSO_3$ _____	copper(II) acetate monohydrate _____
10. $K_2C_2O_4$ _____	hydrofluoric acid _____
11. $Cu(IO_4)_2$ _____	nitrous acid _____
12. $KMnO_4$ _____	potassium iodide _____
13. $Ba_3(PO_4)_2$ _____	lithium peroxide _____
14. $HClO_4(aq)$ _____	hydrocyanic acid _____
15. SF_6 _____	phosphorus pentaflouride _____
16. $LiHCO_3$ _____	acetic acid _____
17. $HI(aq)$ _____	aluminum chlorate _____
18. $Sn(BrO_3)_2$ _____	chloric _____
19. $NH_4C_2H_3O_2$ _____	ammonium _____
20. $Sn(SCN)_4$ _____	aluminum dichromate _____

21. $AgCl$ _____ magnesium hydroxide _____

22. $Fe(HSO_4)_2$ _____ lead(IV) bicarbonate _____

23. $CuF_2 \cdot 2H_2O$ _____ zinc sulfide _____

24. $NaOH$ _____ strontium telluride _____

25. $HClO(aq)$ _____ sodium sulfate _____