A. Write the correct formula for each of the following compounds. Remember the different ways compounds are named depending upon whether they are ionic or covalent.

Diphosphorus pentoxide potassium chloride Nitrogen dioxide Magnesium chloride Dichlorine heptoxide Aluminum chloride Tetraphosphorus trisulfide _____ Potassium sulfate _____ Ammonium sulfate _____ Carbon monoxide Ferrous carbonate _____ Ferric carbonate Phosphoric acid Barium phosphate _____ Tungsen(V)phosphide Lead(IV)oxalate Sodium selenate Cupric cyanide Potassium hydroxide Ammonia

B. Write the <u>common name</u> for each of the following compounds. Again note that covalent compounds are named one way and ionic compounds another way.

N₂O₄ _____

 N_2O _____

PCI₃______

PbF₄_____

CCI₄ ______

KHSO₃_____

Cu₂SO₄ _____

PbO _____

Co(CIO₃)3_____

NH₄OH _____

FeSO₄ ______

CoSO₃_____

Fe(C₂H₃ O₂)₃ _____

Cu(NO₃)₂_____

AICl ₃		NH ₄ Cl	
SO ₃		PCl ₅	
As ₂ (SO ₄) ₃		CuCN	
LiBrO ₃		LiClO ₂	
Fe(SCN) ₃		NH ₄ C ₂ H ₃ O ₂	
KIO ₃		SeCl ₂	
Ca(IO ₄) ₂		Mg(NO ₂) ₂	
AgNO ₃		RbHCO ₃	
Ba ₃ (PO ₄) ₂		CaO	
KMnO ₄		K ₂ S	
ZnBr ₂		Sr(OH) ₂	
CoCrO ₄		ThCr ₂ O ₇	
WN ₂		TiH ₂	
Sn(NO ₃) ₄		SF ₆	
XeF ₆		Cs ₂ C ₂ O ₄	
D. Name the f	following salts then write the	formula and name for the co	orresponding acid.
	Name of salt	formula of acid	name of acid
HBr	realite of balk	Torritala of aoia	name of adia
HBrO _		 	
HBrO ₂			
HBrO ₃			
HBrO ₄		<u> </u>	
H ₂ S _			
H ₂ SO ₃ _		<u> </u>	
H ₂ SO ₄ _		 	
HCN _		 	
H ₂ CO ₃			

C. Give the <u>systematic</u> (IUPAC) name for the following compounds:

E. Fill in the corresponding in	formation (either give name or formula)
2-heptene	
PF ₅	
1-butyne	
Potassium dichromate	
Cr(OH) ₃	
Nickel(II) phosphate	
2, 4, - Octadiene	
HIO(aq)	
KH	
Cr_2O_3	
lead(IV) oxalate	
MgSO ₄ •6H ₂ O	
CH ₃ CH ₂ CH ₃	
CsClO ₂	
Gallium nitrate	
Carbonic acid	
Ag ₃ PO ₃	
V ₂ (CrO ₄) ₅	
Xenon hexachloride	
hydrosulfuric acid	
Sn(MnO ₄) ₄	
I_2O_7	
Lithium dihydrogen phosphite	>
nonane	

F. W	rite chemical equations for each of the following reactions (unbalanced).
	silver oxide decomposes at high temperatures to form metallic silver and oxygen. ation for this reaction is:
hydroxide	w milliliters of a solution of cupric nitrate is placed in a large test tube. Dilute sodium is added drop by drop until a precipitate forms. The precipitate is cupric hydroxide. Initrate is also formed. Write an equation for the reaction:
	all piece of zinc metal is dissolved in dilute hydrochloric acid. The gas evolved is hydrogen. dissolves in the acid to form soluble zinc chloride. The equation for this reaction is:
` '	queous solution of soluble iron (III) chloride is mixed with aqueous sodium hydroxide to insoluble iron (III) hydroxide and a sodium chloride solution.
	eous silver nitrate reacts with aqueous aluminum chloride to produce the insoluble salt silver and soluble aluminum nitrate.