Name	No
Period	

Chemical Names and Formulas Worksheet 1

1. Circle the chemical formula that goes with the given name.

a) Barium chloride:	BaCl	$BaCl_2$	Ba ₂ Cl	Ba_2Cl_2
b) Iron(III) phosphate	FePO ₄	Fe_3PO_4	$Fe(PO_4)_3$	Fe(PO) ₄
c) Selenium trioxide	$Se(O_2)_3$	Se_3O_2	Se_3O	SeO_3
d) Aluminum hydroxide	AlOH	$Al(OH)_3$	Al ₃ OH	$AlOH_3$
e) Ammonium dichromate	$(NH_4)_2Cr_2O_7$	$NH_4(Cr_2O_7)_2$	$NH_4Cr_2O_7$	$(NH_4)_2CrO_4$

2. Circle the name that goes with the chemical formula.

a)	CuSO ₄	copper sulfate	copper sulfite	copper(II) su	ulfate copper(I) sulfate
b)	Na_2SO_3	sodium sulfate	sodium sulfide triox	ide sodiu	m sulfite
c)	Al_2O_3	aluminum(III) oxide	aluminum(II) oxide	aluminum oxide
d)	NaHCO ₃	sodium carbonate	sodium bicar	·bonate	sodium hydrocarbonate
e)	$KMnO_4$	potassium manganat	te potassium pe	ermanganate	potassium manganite

- 3. Give the proper chemical names for each formula.
 - a) BaO
 - b) NaOH
 - c) CaCO₃
 - d) FeSO₄
 - e) NO₂
 - f) $Cr(MnO_4)_3$
 - g) H₂S
- 4. Give the formulas for these compounds.
 - a) lithium chloride carbon dioxide
 b) magnesium oxide silver bromide
 c) cobalt(III) chloride zinc nitrate
 - d) nickel(II) sulfate phosphorus pentabromide
 - e) ammonium hydrogen carbonate water
 - f) mercury(II) sulfite ammonia

Chemical Names and Formulas Worksheet 2

ALL THE COMPOUNDS IN **BOLD** SHOULD BE DONE WITHOUT USING THE CATION/ANION LIST

- 1. Determine the formula for the ionic compound formed by combining the ion pair.
- (a) Mercury(II) & Phosphate
- (b) Chromium(III) & Fluoride (c) Iron(III) & Sulfate

2. Identify the following substances as IONIC (I) or MOLECULAR (M). Name each compound.

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Mg(ClO) ₂						
(NH ₄) ₂ SO ₃						
FePO ₄						
P ₂ O ₅						
PbO ₂						
NiCO ₃						
OF ₂						
SF ₆						
K ₂ SO ₄						
SO ₃						
Ag ₂ S						

3. Write formulas for the following compounds.

(a) aluminum oxalate	(b) strontium nitrite
(c) carbon tetrachloride	(d)lead(II) hydroxide
(e) ammonium chromate	(f) mercury(II) sulfate
(g) potassium perchlorate	(h)zinc sulfide
(i) copper(I) carbonate	(j) sodium permanganate
(k)tin(IV)oxide	(l) silver acetate
(m) xenon tetrafluoride	(n) dinitrogen pentoxide