т.	Which is the core	ary ionic compounds: Determing rect formula for potassium hydride?	ing correct formula	II OIII Hante
	1) KH ₂	2) KH	3) KOH	4) K(OH)₂
	I) All	orrectly represents the compound alu 2) Ali ₃	minum iodide ? 3) Al₃I	4) Ai ₃ i ₃
3. W	Vhat is the correc	t chemical formula for cesium oxide?		
	1) CsO ₂	2) C ₂ O ₃	3) CsO .	4) Cs ₂ O
4. W		orrect for magnesium sulfide?		
	1) MgS	2) Mg ₂ S ₂	3) MnS	4) Mn ₂ S ₂
5. Which is the formula for calcium nitride?				
	1) CaN	2) Ca₂N₃	3) Ca₃N₃	4) Ca₃N₂
orn	nulas of comp	oounds with polyatomic ion: 1	Dotormining	
1	l. Which formul	a is correct for sodium nitrate?	zeternmanig correct	tormula from name
	1) NaNO ₂	2) NaNO ₃	3) Na(NO) ₂	4) Na(NO) ₃
	1) IVIg ₂ PO ₇	a is correct for magnesium phosphate? 2) MgPO ₄	3) Mg ₂ (PO ₄) ₃	4) Mg ₃ (PO ₄) ₂
	1) NH₄O	orrect formula for ammonium oxide? 2) NH ₂ O	3) (NH₄)₂O	4) (NH ₄) ₂ O ₂
4.	. Which is the co 1) NH ₄ SO ₄	orrect formula for ammonium sulfate? 2) NH ₄ (SO ₄₎₂	3) (NH ₄) ₂ (SO ₄) ₂	4) (NH₄)₂SO₄
5.	Which is the co 1) ZnCO₃	orrect formula for zinc carbonate? 2) Zn ₂ (CO ₃) ₂	3) ZnCO ₆	4) ZnCO
rmı	ulas of compo	ounds with multiple oxidation	numbers: Determ	ining correct form
1.	What is the cor 1) PbCl	rect formula for lead (II) chloride? 2) Pb ₂ Cl	3) Pb₂Cl2	4) PbCl ₂
1. 2.	What is the cor 1) PbCl The formula for 1) PbO	2) Pb ₂ Cl lead (II) oxide is 2) PbO ₂	3) Pb ₂ O	4) PbCl ₂ 4) Pb ₂ O ₃
1. 2.	What is the cor 1) PbCl The formula for 1) PbO	2) Pb₂Cl lead (II) oxide is	3) Pb ₂ O	
 2. 3. 	What is the cor 1) PbCl The formula for 1) PbO The correct form 1) PtN	2) Pb₂Cl lead (II) oxide is 2) PbO₂ nula for the compound platinum (IV) n	3) Pb₂O itride is ?	4) Pb ₂ O ₃ 4) Pt ₄ N
 1. 2. 3. 4. 	What is the cor 1) PbCl The formula for 1) PbO The correct form 1) PtN The correct form 1) Mn ₄ S	2) Pb_2Cl lead (II) oxide is 2) PbO_2 nula for the compound platinum (IV) n 2) Pt_3N_4 nula for manganese (IV) sulfide is	3) Pb₂O itride is ? 3) Pt₄N₃	4) Pb ₂ O ₃ 4) Pt ₄ N 4) Mn ₄ S ₄
 1. 2. 3. 4. 5. 	What is the cor 1) PbCl The formula for 1) PbO The correct formula for 1) PtN The correct formula in 1) Cu ₂ Cl	2) Pb ₂ Cl lead (II) oxide is 2) PbO ₂ nula for the compound platinum (IV) n 2) Pt ₃ N ₄ nula for manganese (IV) sulfide is 2) MnS ₂ s correct for copper (II) chlorate?	3) Pb ₂ O itride is ? 3) Pt ₄ N ₃ 3) Mn ₄ S ₂ 3) Cu ₂ ClO ₃	4) Pb ₂ O ₃ 4) Pt ₄ N

1.	Which formula represent 1) Ni ₂ Cr ₂ O ₇	ts nickel (II) dichromate? 2) NiCrO ₇	3) NiCr ₂ O ₇	4) Ni(Cr ₂ O ₇) ₂
2.	The formula for calcium 1) CaCN ₂	cyanide is 2) CaSCN₂	3) Ca(CN) ₂	4) Ca(SCN)₂
3.	The correct formula for (1) PO ₂	potassium oxide is 2) P ₂ O	3) KO ₂	4) K₂O
4.	Which is the correct for 1) FeS	mula for iron (II) sulfide? 2) Fe _s O ₃	3) Fe ₂ S ₃	4) Fe ₂ (SO ₄) ₂
5.	Which is a correct formu 1) NiCl ₃	la for a compound with IUP 2) Ni₃ClO	AC name of Nickel (III) 3) NiClO ₃	hypochlorite? 4) Ni(ClO) ₃
6.	The correct formula for 1 1) Mn ₇ O ₂	manganese (VII) oxide will b 2) Mg ₂ O ₇	oe 3) Mn ₂ O ₇	4) Mn ₇ O ₂
7.	Which formula is correct 1) NH ₄ CO ₃	for ammonium carbonate? 2) (NH ₄) ₂ CO ₃	3) (NH₄)₃CO₃	4) (NH ₄) ₃ (CO) ₃
8.	Which formula is correct 1) SbO ₃	for antimony (V) oxide? 2) Sb ₂ O	3) Sb ₂ O ₅	4) Sb ₅ O ₂
9.	Which formula is correct 1) NaHCO ₃	for sodium hydrogen carbo 2) NaHC	nate? 3) Na ₃ HCO ₃	4) NaCO₃
10.	Which formula correctly 1) Cr ₆ S ₂	represents chromium (VI) so 2) Cr ₂ S ₆	ulfide? 3) CrS ₃	4) Cr₃S

L <u>1. Nan</u>	ning binary compounds. Determining na	me from binary compound formula		
1.	1. What is the correct IUPAC name for the formula Linz			
1	1) Litnium nitride	3) Lithium (I) nitride		
1	2) Lithium nitrite	4) Lithium (I) Nitrite		
2.	Which name is correct for BaBr ₂ ?			
	Barium bromite	7) 8		
	2) Barium bromate	3) Barium bromide 4) Barium bromium		
3.	The name of the compound Na ₃ P is			
	1) Sodium (III) phosphide			
1	2) Sodium (III) phosphate	3) Sodium phosphide		
ł	, www. (wy, priosphiate	4) Sodium phosphate		
4.	The correct name for FrO is			
	1) Francium oxide	3) Fluorine oxygen		
	2) Francium (II) oxide	4) Fluorine (II) oxygen		
L		+) Fuoline (ii) oxygen		
.Namin	g compounds containing polyatomic	Ons: Determining correct name from to		
1. V	real is the correct IUPAC name for Mg(NO ₃) ₂ ?	ing correct name from 10		
1)	Magnesium (II) nitrate	3) Magnosium mitare		
2)	Magnesium (II) nitrite	3) Magnesium nitrate		
		4) Magnesium nitride		
2. W	hat is the correct name for the compound with	the formula AIPO		
1)	Aluminum (IV) phosphate			
2)	Aluminum phosphate	3) Aluminum (III) phosphite		
		4) Aluminum phosphite		
3. Th	e correct name for the compound with the IUPA	C formula of NH ₂ Cl is		
1)	Nitrogen chlorate	3) Nitrate chloride		
2)	Ammonium chloride			
		4) Ammonium chlorite		
Naming	compounds containing an atom with			
		multiple oxidation numbers atom		
ı. Wna	it is the correct name for the compound CrPO ₄ ?			
1	Chromium (II) phosphate	3) Chromium (II) phosphide		
2,	Chromium (III) phosphate	4) Chromium (III) phosphide		
2. The	correct IUPAC name of the compound with a fo			
1)	Lead (I) oxide			
	Lead (II) oxide	3) Lead (III) oxide		
-,	read (ii) Oxide	4) Lead (IV) oxide		
3. Whic	h formula is correct for V(NO ₃) ₂ ?	•		
1)	Vanadium (I) nitrate	23.14		
	Vanadium(II) nitrate	3) Vanadium (III) nitrate		
		4) Vanadium (IV) nitrate		
1. What	is the correct IUPAC name for Co ₂ O ₃ ?			
1)	Cobalt (II) oxide	3) Copper (II) oxide		
2)	Cobalt (III) oxide			
		4) Copper (III) oxide		

u) Iron (III) Sulfate

Objective: To test your ability to write the correct chemical formulas to a given IUPAC compound names

Write the correct chemical formula to the given names. Use criss-cross method to ensure correct subscripts and equalization of charges.

1. Wr	e the correct formulas for the following <u>Binary Ionic Compounds</u> .				
	a) Potassium fluoride	b) Lithiur	n oxide		
	c) Barium iodide	d) Magne	esium sulfide		
2. Wi	rite the correct formulas for the f	following compounds containing a	polyatomic ion.		
	e) Sodium sulfate	f) Bariun	f) Barium Phosphate		
			.		
	g) Magnesium hydrogen carb	onate h) Alumir	num chromate		
3. Wri	ite formula for the following com i) Lead (II) lodide	npounds containing element with <u>r</u> j) Copper (i) nitrate	<i>nultiple positive charges.</i> k) Nitrogen (V) oxide		
	I) Iron (III) Sulfate	m) Chromium (V) Chloride	n) Phosphorous (IV) oxide		
4. <u>Mix</u>	<u>æd</u> formula writing.				
	o) Palladium (II) sulfide	p) Strontium nitrite	q) Calcium iodide		
	r) Lithium permanganate	s) Platinum (IV) oxide	t) Barium chlorate		

v) Chromium (VI) phosphide

w) Manganese (III) oxide

Write the correct IUPAC name for each	the correct IUPAC name for each of the formulas below.		
5. Name the following <u>Binary ionic con</u>	npounds.		
a) LiBr	b) A	g ₂ O	
	N D	•	
c) Al₂O₃	d) Ba	3N2	
6. Name the following compounds con e) BeSO ₄	·	(NO ₃) ₂	
e) be304	1) Ca	1403/2	
g) Al ₂ (Cr ₂ O ₇) ₃	h) (Ni	H ₄) ₂ S	
	<i>t</i>	· •	
7. Name the following compounds con	taining element with <u>multiple</u>	positive charges.	
i) CuCl ₂	j) Ti₂O₃	k) Fe(NO₃)₂	
	,	·	
l) Ni₂(SO₄)₃	m) Au₂O	n) SnO	
o) NO₂	p) PCI _s	q) N ₂ O ₅	
8. Mixed formula naming.			
r) Na₃P	s) Fe ₂ S ₃	t) Al ₂ (SO ₂) ₃	
	•		
u) MnO	v) Ca(ClO₃)₂	w) PbSO ₄	
wy mino	v) Ca(ClO3)2	., , 5504	
x) NO	y) PBr _s	z) Ba(HCO ₃) ₂	

et, C: Writing and Naming formulas with prefix		your ability to write and ormulas with prefixes
9. Write formulas to the following compound	ls containing prefixes.	
a) Dibismuth trichloride	b) Silicon tetrafluoride	c) Ditatanium trioxid
d) Tetraphosphorous hexaoxide	e) Carbon disulfide	f) Boron triiodide
10. Name the following compounds using pref	fixes.	
a) H₂S	b) SiF₄	c) Hg ₂ Cl ₂
d) XeF ₆	e) V ₂ H	f) PF ₅
): Naming and writing formulas to hydrates	Jormulas of	ability to write and name hydrates
1. Write the correct names to each of the follo	wing hydrates.	
a) NH₄NO₃.3H₂O	b) Na ₂ CO ₃ .10H ₂ O	
c) FeSO ₄ .7H ₂ O	d) SnCl ₂ . 2H ₂ O	·
2. Write the correct formula to each of the foll	lowing hydrates.	
a) Barium hydroxide octahydrate	b) Cobalt (II) chloride	hexahydrate
c) Iron (III) phosphate tetrahydrate	d) Lithium sulfite pen	ntahvdrate