

WRITING FORMULAS (CRISS-CROSS METHOD)

Write the formulas of the compounds produced from the listed ions.

	Cl ⁻	CO ₃ ⁻²	OH ⁻	SO ₄ ⁻²	PO ₄ ⁻³	NO ₃ ⁻
Na ⁺	Na ⁺¹ Cl ⁻¹ NaCl					
NH ₄ ⁺						
K ⁺						
Ca ⁺²						
Mg ⁺²						
Zn ⁺²						
Fe ⁺³						
Al ⁺³						
Co ⁺³						
Fe ⁺²						
H ⁺						

Part 2: Writing and Naming Ionic Compounds

<i>Compound Name</i>	<i>Formula</i>
1. Ammonium phosphate	
2. Iron II oxide	
3. Iron III oxide	
4. Potassium nitrate	
5. Magnesium hydroxide	
6. Aluminum sulfate	
7. Copper II sulfate	
8. Lead IV chromate	
9. Potassium permanganate	
10. Sodium hydrogen carbonate	
11. Zinc nitrate	
12. Aluminum sulfite	
13. Chromium IV oxide	
14. Chromium III oxide	
15. Aluminum oxide	
16. Silver I sulfide	
17. Nickel II sulfate	
18. Potassium dichromate	
19. Nickel II bromide	
20. Magnesium chloride	
21.	CaCO ₃
22.	KCl
23.	FeSO ₄
24.	LiBr
25.	MgCl ₂
26.	FeCl ₃
27.	Zn ₃ (PO ₄) ₂
28.	NH ₄ NO ₃
29.	Al(OH) ₃
30.	CuC ₂ H ₃ O ₂
31.	PbSO ₃
32.	NaClO ₃
33.	CaC ₂ O ₄
34.	Fe ₂ O ₃
35.	(NH ₄) ₃ PO ₄
36.	NaHSO ₄
37.	Mg(NO ₂) ₂
38.	CuSO ₄
39.	NaHCO ₃
40.	NiBr ₃