

NOTE: Watch out for multivalent metals in the ionic compounds!! Use common names!

Ionic and Molecular:

1. Na ₃ N	<u>sodium nitride</u>	2. nitrogen trihydride	NH₃
3. HgCl ₂	<u>mercury (II) chloride</u>	4. water	H₂O
5. N ₂	<u>nitrogen</u>	6. lithium chloride	LiCl
7. ZrO ₂	<u>zirconium oxide</u>	8. cobalt(III) iodide	CoI₃
9. Ca ₂ C	<u>calcium carbide</u>	10. arsenic trioxide	AsO₃
11. NH ₃	<u>ammonia</u>	12. gold(I) phosphide	Au₃P
13. KCl	<u>potassium chloride</u>	14. selenium hexabromide	SeBr₆
15. HF	<u>hydrofluoric acid</u>	16. gallium fluoride	GaF₃
17. N ₂ O ₃	<u>dinitrogen trioxide</u>	18. bromine	Br₂

Polyatomic (Set 3):

1. HNO ₂	<u>hydrogen nitrite (or nitrous acid)</u>	2. magnesium sulfate	MgSO₄
3. Ca ₃ (PO ₄) ₂	<u>calcium phosphate</u>	4. ammonium chlorate	NH₄ClO₃
5. Ba(ClO ₃) ₂	<u>barium chlorate</u>	6. magnesium sulfite	MgSO₃
7. Cu ₂ SO ₃	<u>copper (II) sulfite</u>	8. copper(II) nitrate	Cu(NO₃)₂
9. F ₂	<u>fluorine gas</u>	10. aluminum sulfate	Al₂(SO₄)₃
11. NH ₄ OH	<u>ammonium hydroxide</u>	12. iron(III) phosphate	FePO₄

IONIC SPOT THE ERROR

Name > Formula	Error	Corrected!
manganese (II) oxide > MnO ₂	=> Mn ion is +2, O is -2 so formula is incorrect	MnO
Fe(III)Cl > FeCl ₃	-> need to write out element names. formula is correct	iron (III) chloride
potassium (I) nitrate > KNO ₃	-> not a multivalent so NO roman numeral	potassium nitrate
potassium chloride > PCl	-> wrong symbol, should be K	KCl

iron (II) fluoride > Fe ₂ F	-> ion charges not crossed OVER to determine formula	FeF ₂
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SCROLL DOWN for Set 4 & Answers