

Name _____ Honors Chemistry _____/_____/_____

Homework Part I: Write the formulas for each of the following compounds. All versions of naming are used (binary ionic compounds, polyatomic compounds, Common and Stock naming systems).

- | | | |
|---|---|---|
| 1. iron(III) oxide
Fe₂O₃ | 2. calcium sulfide
CaS | 3. nickel(III) iodide
NiI₃ |
| 4. rubidium nitrate
RbNO₃ | 5. mercuric oxide
HgO | 6. cupric chloride
CuCl₂ |
| 7. lead(IV) chlorate
Pb(ClO₃)₄ | 8. aluminum sulfite
Al₂(SO₃)₃ | 9. potassium nitride
K₃N |
| 10. iron(III) hydrogen sulfate
Fe(HSO₄)₃ | 11. ferric carbonate
Fe₂(CO₃)₃ | 12. magnesium citrate
Mg₃(C₆H₅O₇)₂ |
| 13. lead(II) phosphite
Pb₃(PO₃)₂ | 14. iron(II) dichromate
FeCr₂O₇ | 15. cuprous hydroxide
CuOH |
| 16. copper(II) thiosulfate
CuS₂O₃ | 17. lithium chloride
LiCl | 18. cupric bicarbonate
Cu(HCO₃)₂ |
| 19. nickel(II) nitrate
Ni(NO₃)₂ | 20. silver cyanide
AgCN | 21. calcium chlorate
Ca(ClO₃)₂ |
| 22. ammonium sulfate
(NH₄)₂SO₄ | 23. aluminum chlorate
Al(ClO₃)₃ | 24. zinc sulfite
ZnSO₃ |
| 25. tin(IV) chloride
SnCl₄ | 26. silver sulfide
Ag₂S | 27. antimony(V) chloride
SbCl₅ |

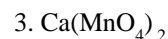
Homework Part II: Write the correct name for the following compounds. **When applicable, use BOTH the Stock and Common naming systems.**



mercury(II) fluoride
mercuric fluoride



sodium chloride



calcium permanganate



iron(II) biphosphate
ferrous biphosphate



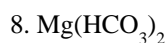
rubidium perchlorate



beryllium carbonate



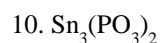
zinc oxide



magnesium bicarbonate



boron hydroxide



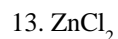
tin(II) phosphite
stannous phosphite



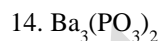
ammonium hypoiodite



strontium carbonate



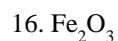
zinc chloride



barium phosphite



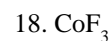
silver dihydrogen phosphate



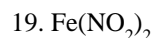
iron(III) oxide
ferric oxide



mercury(I) chloride
mercurous chloride



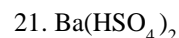
cobalt(III) fluoride
cobaltic fluoride



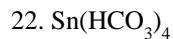
iron(II) nitrite
ferrous nitrite



potassium sulfate



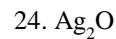
barium bisulfate



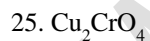
tin(IV) bicarbonate
stannic bicarbonate



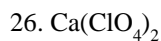
sodium permanganate



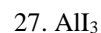
silver oxide



copper(I) chromate
cuprous chromate



calcium perchlorate



aluminum iodide