

Problem Solving Assignment: Names and Formulae of Compounds

Student Name: _____

GENERAL INSTRUCTIONS

For each substance whose name is given, write the formula, if the formula is given, provide the name. Use the Periodic Table as your main reference. If you encounter ions with which you are unfamiliar, you may look these up in your textbook.

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|-------------------------------------------|-----------------------------------------------------|
| 1. carbon dioxide _____ | 2. BaCl_2 _____ |
| 3. calcium hypochlorite _____ | 4. KMnO_4 _____ |
| 5. barium hydroxide _____ | 6. FePO_4 _____ |
| 7. cobalt (II) acetate _____ | 8. SnS _____ |
| 9. calcium fluoride _____ | 10. CBr_4 _____ |
| 11. mercury (II) chlorate _____ | 12. $\text{Al}_2(\text{Cr}_2\text{O}_7)_3$ _____ |
| 13. Ammonia _____ | 14. $\text{Al}_2(\text{SO}_4)_3$ _____ |
| 15. manganese (II) oxalate _____ | 16. CdCl_2 _____ |
| 17. sodium carbonate _____ | 18. KH_2PO_4 _____ |
| 19. mercury (I) chloride _____ | 20. $\text{Al}(\text{ClO}_2)_3$ _____ |
| 21. aluminium oxide _____ | 22. $\text{Zn}(\text{NO}_3)_2$ _____ |
| 23. gallium selenate _____ | 24. $\text{CaCl}_2 \cdot 6\text{H}_2\text{O}$ _____ |
| 25. iron (III) sulphide _____ | 26. NH_4NO_2 _____ |
| 27. iron (II) sulphate heptahydrate _____ | 28. H_3PO_3 (aq) _____ |
| 29. barium bromate _____ | 30. H_2O_2 _____ |
| 31. lead (II) iodide _____ | 32. $\text{Ca}(\text{OH})_2$ _____ |
| 33. carbonic acid _____ | 34. K_2SO_3 _____ |
| 35. sodium sulphite _____ | 36. $\text{Hg}(\text{BrO}_3)_2$ _____ |
| 37. periodic acid _____ | 38. HCN (aq) _____ |
| 39. magnesium hydrogen sulphate _____ | 40. Cr_2O_3 _____ |