

WS 4.2 Nomenclature I
Covalent Compounds (case #1)

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Name (yours) _____

1. oxygen difluoride _____

2. sulfur hexafluoride _____

3. silicon dioxide _____

4. SiF₄ _____

5. N₂O _____

6. NO₂ _____

Ionic Compounds (fixed charges - case #2)

7. sodium fluoride _____

8. potassium sulfide _____

9. barium cyanide _____

10. magnesium nitrate _____

11. ammonium phosphate _____

12. calcium iodide _____

13. sodium carbonate _____

14. calcium chromate _____

15. barium acetate _____

16. lithium iodate _____

17. KCl _____

18. Na₂O _____

19. Mg₃N₂ _____

20. Na₂CO₃ _____

21. NH₄C₂H₃O₂ _____

22. RaCl₂ _____

23. K₃PO₄ _____

24. Mg₃(PO₄)₂ _____

25. Cs₂CO₃ _____

26. Ca(HSO₃)₂ _____

Ionic Compounds (variable charges - case #3)

27. copper(I) oxide _____

28. copper(II) oxide _____

29. iron (II) sulfate _____

30. iron (III) sulfate _____

31. lead (IV) hydroxide _____

32. tungsten (VI) phosphate _____

33. Cu₂S _____

34. FeO _____

35. MoF₂ _____

36. Cr(OH)₂ _____

37. Fe(HSO₃)₂ _____

38. PbS _____

Acids (case #4)

39. phosphoric acid _____

40. carbonic acid _____

41. hydrosulfuric acid _____

42. hypochlorous acid _____

43. H₂C₂O₄ _____

44. HClO _____

45. H₂SO₄ _____

46. H₂O _____

WS 4.3 Nomenclature II

Name (yours) _____

Hodgepodge (mix of covalent, ionic, & acids)

1. carbon dioxide _____
2. potassium cyanide _____
3. selenium disulfide _____
4. potassium chlorate _____
5. nitrous acid _____
6. zinc sulfate _____
7. aluminum acetate _____
8. copper(II) phosphate _____
9. disilicon trioxide _____
10. chloric acid _____
11. sodium chloride _____
12. aluminum iodide _____
13. barium cyanide _____
14. carbon disulfide _____
15. strontium nitrate _____
16. copper (II) phosphate _____
17. phosphorous acid _____
18. potassium hydroxide _____
19. bromine heptafluoride _____
20. lead (II) sulfide _____
21. carbon monoxide _____
22. ammonium acetate _____
23. mercury (II) borate _____
24. calcium hydride _____
25. boron trichloride _____
26. oxalic acid _____
27. BrF_3 _____
28. $\text{Li}_2\text{C}_2\text{O}_4$ _____
29. $\text{Fe}_3(\text{PO}_4)_2$ _____
30. SCl_4 _____
31. KHCO_3 _____
32. SnI_2 _____
33. HF _____
34. PO_3 _____
35. PO_3^{-3} _____
36. CaCO_3 _____
37. $\text{Fe}(\text{IO}_3)_2$ _____
38. CuCO_3 _____
39. CaF_2 _____
40. HNO_3 _____
41. $(\text{NH}_4)_2\text{S}$ _____
42. SO_3 _____
43. KNO_3 _____
44. $\text{Sn}_3(\text{PO}_4)_2$ _____
45. MgS_2O_3 _____
46. Ca_2C _____
47. H_2S _____
48. CCl_4 _____
49. NaHSO_3 _____
50. NH_4OH _____
51. H_3BO_3 _____
52. $\text{V}(\text{BrO}_3)_5$ _____

Inorganic Nomenclature, extra-practice

Name: _____

Determine the name

- | | |
|------------------------------|--|
| 1. Ba(CN) ₂ _____ | 2. NiBr ₃ _____ |
| 3. AsO ₃ _____ | 4. Na ₃ PO ₄ _____ |
| 5. MgS _____ | 6. (NH ₄) ₂ C ₂ O ₄ _____ |
| 7. CuCl ₂ _____ | 8. NO ₂ _____ |
| 9. HNO ₂ _____ | 10. Li ₂ CO ₃ _____ |
| 11. MnO _____ | 12. HF _____ |
| 13. SF ₆ _____ | 14. Ca ₃ N ₂ _____ |

Determine the formula

- | | |
|-------------------------------------|---------------------------------|
| 15. titanium (IV) carbide _____ | 16. potassium thiosulfate _____ |
| 17. diphosphorus tetraoxide _____ | 18. sodium sulfide _____ |
| 19. tin (II) chloride _____ | 20. hydrosulfuric acid _____ |
| 21. copper (I) phosphate _____ | 22. magnesium oxide _____ |
| 23. molybdenum (VI) hydroxide _____ | 24. nitrous acid _____ |
| 25. carbon tetrachloride _____ | 26. iron (IV) sulfite _____ |
| 27. niobium (V) chromate _____ | 28. calcium iodide _____ |
| 29. ammonium bisulfate _____ | 30. silicon dioxide _____ |
| 31. potassium phosphide _____ | 32. aluminum bromide _____ |
| 33. ammonium oxide _____ | 34. mercury (II) sulfate _____ |

cross-off answers as you get them

ammonium oxalate arsenic trioxide barium cyanide calcium nitride copper (II)
 chloride hydrofluoric acid lithium carbonate magnesium sulfide manganese (II) oxide
 nickel (III) bromide nitrogen dioxide nitrous acid sodium phosphate sulfur
 hexafluoride
 AlBr₃ CCl₄ CaI₂ Cu₃PO₄ H₂S HNO₂ Hg₂SO₄ Fe₂(SO₃)₃ K₃P K₂S₂O₃
 MgO Mo(OH)₆ Na₂S Nb₂(CrO₄)₅ NH₄HSO₄ (NH₄)₂O P₂O₄ SiO₂ SnCl₂ TiC