SC2.e. Ask questions about chemical names to identify patterns in IUPAC nomenclature in order to predict chemical names for ionic (binary and ternary), acidic, and inorganic covalent compounds.

1. $NiCl_2$
2. $NiCl_3$
3. $CoCl_2$
4. CrN
5. Cr_2O_3
6. Ag_2O
7. $FeCl_3$
8. $FeCl_2$
9. HgO
10. CdS
11. Cd_3P_2
12. WF_5
13. W_2O_5
14. Iron(II) bromide
15. Copper(I) oxide
16. Copper(II) oxide
17. Zinc iodide
18. Lead(IV) sulfide
19. Tin(II) nitride
20. Tin(IV) nitride
21. Gold(I) sulfide
22. Tungsten(V) iodide
23. Zirconium(IV) fluoride
24. Scandium(III) nitride
25. Scandium(III) bromide
26. Cs_2S
27. $SrBr_2$
28. VCl_2
29. FeO
30. Fe_2O_3
31. NiO
32. Ni_2O
33. MgS
34. Platinum(IV) sulfide
35. Potassium bromide
36. Copper(II) phosphide
37. Chromium(III) iodide
38. Strontium fluoride
39. Iron(II) phosphide
40. Cobalt(II) iodide

Nomenclature 2 – Writing and Naming Ionic Compounds with Polyatomic ions

1. $NaNO_3$
2. $Ba(CN)_2$
3. Li_2SO_4
4. K_3PO_4
5. $Cs(C_2H_3O_2)$
6. $Mg(NO_2)_2$

7. $CaCO_3$
8. $Sr_3(PO_4)_2$
9. $NaHCO_3$
10. KOH
11. Barium chlorate
12. Magnesium acetate
13. Barium sulfate
14. Potassium chlorite
15. Sodium hydroxide
16. Magnesium hydroxide
17. Calcium phosphate
18. Aluminum phosphite
19. Ni_2SO_4
20. $Cd(OH)_2$
21. $ZnSO_3$
22. $ScPO_4$
23. $Pb(CN)_4$
24. $Cr_2(CO_3)_3$
25. $Sn(CH_3COO)_4$
26. NH_4NO_3
27. $(NH_4)_2O$

27'. Iron(III) chlorate

28. Titanium(IV) sulfate
29. Lead(II) carbonate
30. Lead(IV) carbonate
31. Silver phosphate
32. Tungsten(V) phosphite
33. $Co(NO_3)_2$
34. $Ca(NO_3)_2$
35. $PbSO_4$
36. NH_4CN
37. $(NH_4)_3PO_4$
38. $Hg(OH)_2$
39. $Bi_2(SO_4)_3$
40. Potassium nitrate
41. Iron(II) sulfate
42. Iron(III) sulfate
43. Strontium phosphate
44. Aluminum chlorate
45. Copper(I) carbonate
46. Lead(II) nitrate
47. Lead(IV) nitrate
48. Sodium acetate
49. MgO
50. $Sr(NO_3)_2$
51. $(NH_4)_2S$
52. Na_3P
53. Cu_3P

54. Cu_3PO_4

55. $Cd(OH)_2$

56. $BaCO_3$

56'. Potassium iodate

57. Sodium carbonate

58. Cobalt(II) nitrite

59. Ammonium sulfide

60. Ammonium phosphate

61. Ammonium hydroxide

62. Iron(III) chloride

63. Magnesium oxide

64. Potassium perchlorate

65. Zinc chlorite

66. Scandium III nitrite

67. Barium bicarbonate

68. Lead(II) oxide

69. Lead(II) hydroxide

70. Lead(IV) oxide

71. Lead(II) iodate

Nomenclature Podcast 3- Writing and Naming Molecular Compounds and Acids

1. N_2O_5
2. CO_2
3. C_2O_4
4. P_4O_{10}
5. Cl_4
6. CCl_4

7. Carbon tetrabromide
8. Sulfur hexafluoride
9. Selenium disulfide
10. Arsenic triiodide
11. Silicon tetrabromide
12. Nitrogen triiodide
13. Selenium pentaflouride
14. HNO_3
15. HCl
16. H_2CO_3
17. $HC_2H_3O_2$
18. CH_3COOH
19. HBr
20. HNO_2
21. H_3PO_4
22. H_2S
23. $HClO_4$
24. nitric acid
25. hydrochloric acid
26. acetic acid
27. hydrofluoric acid
28. phosphorous acid
29. carbonic acid
30. nitrous acid
31. phosphoric acid
32. hydrosulfuric acid
33. sulfuric acid
34. oxalic acid
35. hydroiodic acid