

Binary Molecular Nomenclature

Rules for Binary Molecular Compounds	Prefixes
1. The naming system is for compounds composed of two <u>nonmetallic elements</u> .	1 – mono
2. The first element keeps its name	2 – di
a. The first element gets a prefix if it has a subscript in the formula	3 – tri
3. The second element gets the <i>-ide</i> suffix (ending)	4 – tetra
a. The second element ALWAYS gets a prefix	5 – penta
	6 – hexa

Compound Name	Compound Formula
Carbon dioxide	CO_2
Carbon monoxide	CO
Diphosphorus pentoxide	P_2O_5
Dinitrogen monoxide	N_2O
Silicon dioxide	SiO_2
Carbon tetrabromide	CCl_4
Sulfur dioxide	SO_2
Phosphorus pentabromide	PBr_5
Iodine trichloride	ICl_3
Nitrogen triiodide	NI_3
Dinitrogen trioxide	N_2O_3

Compound Formula	Compound Name
N_2O_4	dinitrogen tetroxide
SO_3	sulfur trioxide
NO	nitrogen oxide
NO_2	nitrogen dioxide
As_2O_5	diarsenic pentaoxide
PCl_3	phosphorus trichloride
CCl_4	carbon tetrachloride
H_2O	water
SeF_6	selenium hexafluoride

For answers to this worksheet, [Click Here](#)

Type I Binary Compounds contain Group I, II, and III metals with non-metal ions. Show the correct name for the following compounds.

Give correct names for these Type I binary compounds

KCl	potassium chloride	MgO	magnesium oxide
K ₂ O	potassium oxide	AlCl ₃	aluminum chloride
CaO	calcium oxide	BaS	barium sulfide
MgCl ₂	magnesium chloride	Al ₂ S ₃	aluminum sulfide
NaH	sodium hydride	SrF ₂	strontium fluoride
ZnS	zinc sulfide	MgI ₂	magnesium iodide
RbBr	rubidium bromide	CaSe	calcium selenide
Al ₂ O ₃	aluminum oxide	BaBr ₂	barium bromide
Na ₃ N	sodium nitride	CsCl	cesium chloride
Ca ₂ C	calcium carbide	Mg ₃ P ₂	magnesium phosphide
KI	potassium iodide	CaCl ₂	calcium chloride

Give correct formulas for these Type I binary compounds

calcium iodide	CaI ₂	magnesium phosphide	Mg ₃ P ₂
calcium hydride	CaH ₂	sodium chloride	NaCl
magnesium fluoride	MgF ₂	barium oxide	BaO
cadmium bromide	CdBr ₂	aluminum arsenide	AlAs
sodium nitride	Na ₃ N	calcium sulfide	CaS
rubidium oxide	Rb ₂ O	potassium selenide	K ₂ Se
barium nitride	Ba ₃ N ₂	sodium iodide	NaI
lithium chloride	LiCl	lithium sulfide	Li ₂ S
silver sulfide	Ag ₂ S	calcium carbide	Ca ₂ C
aluminum nitride	AlN	sodium hydride	NaH
cesium fluoride	CsF	magnesium nitride	Mg ₃ N ₂

Return to: [Exam/Quiz Review Page](#) | [Compound Naming Page](#)

Practice Problems (Answer using the Stock system.)

2+ Write the correct name for:

- | | | | |
|------------------------------------|----------------------|------------------------------------|-------------------------|
| 1) CuS | copper (II) sulfide | 21) Hg ₂ O | mercury (I) oxide |
| 2) PbBr ₄ | lead (IV) bromide | 22) Hg ₂ I ₂ | mercury (I) iodide |
| 3) Pb ₃ N ₂ | lead (II) nitride | 23) AuCl ₃ | gold (III) chloride |
| 4) Fe ₂ O ₃ | iron (III) oxide | 24) MnO | manganese (II) oxide |
| 5) FeI ₂ | iron (II) iodide | 25) CrCl ₃ | chromium (III) chloride |
| 6) Sn ₃ P ₄ | tin (IV) phosphide | 26) CoO | cobalt (II) oxide |
| 7) Cu ₂ S | copper (I) sulfide | 27) Mn ₂ O ₃ | manganese (III) oxide |
| 8) SnCl ₂ | tin (II) chloride | 28) Co ₂ S ₃ | cobalt (III) sulfide |
| 9) HgO | mercury (II) oxide | 29) AuF | gold (I) fluoride |
| 10) Hg ₂ F ₂ | mercury (I) fluoride | 30) CrBr ₂ | chromium (II) bromide |

Answers to Set One

- 11) CuCl₂ copper (II) chloride
- 12) CuBr copper (I) bromide
- 13) PbO lead (II) oxide
- 14) Fe₂S₃ iron (III) sulfide
- 15) PbCl₂ lead (II) chloride
- 16) SnO tin (II) oxide
- 17) Cu₂O copper (I) oxide
- 18) PbO₂ lead (IV) oxide
- 19) FeO iron (II) oxide
- 20) SnO₂ tin (IV) oxide

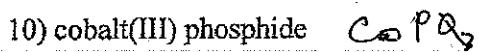
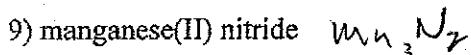
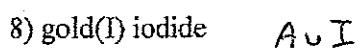
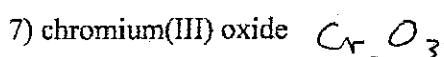
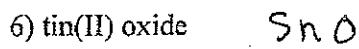
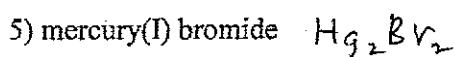
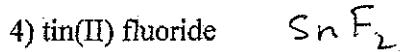
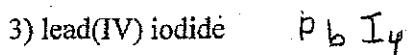
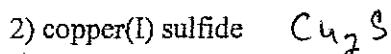
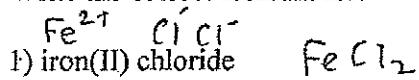
Answers to Set Three

- | | | | |
|------------------------------------|----------------------|------------------------------------|-------------------------|
| 1) CuS | copper (II) sulfide | 21) Hg ₂ O | mercury (I) oxide |
| 2) PbBr ₄ | lead (IV) bromide | 22) Hg ₂ I ₂ | mercury (I) iodide |
| 3) Pb ₃ N ₂ | lead (II) nitride | 23) AuCl ₃ | gold (III) chloride |
| 4) Fe ₂ O ₃ | iron (III) oxide | 24) MnO | manganese (II) oxide |
| 5) FeI ₂ | iron (II) iodide | 25) CrCl ₃ | chromium (III) chloride |
| 6) Sn ₃ P ₄ | tin (IV) phosphide | 26) CoO | cobalt (II) oxide |
| 7) Cu ₂ S | copper (I) sulfide | 27) Mn ₂ O ₃ | manganese (III) oxide |
| 8) SnCl ₂ | tin (II) chloride | 28) Co ₂ S ₃ | cobalt (III) sulfide |
| 9) HgO | mercury (II) oxide | 29) AuF | gold (I) fluoride |
| 10) Hg ₂ F ₂ | mercury (I) fluoride | 30) CrBr ₂ | chromium (II) bromide |

Answers to Set Two

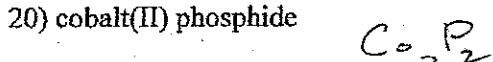
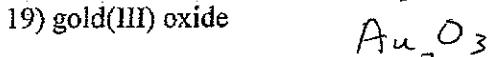
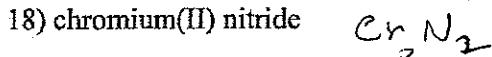
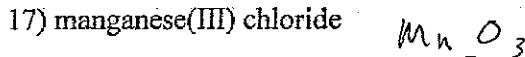
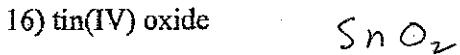
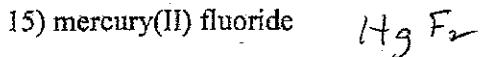
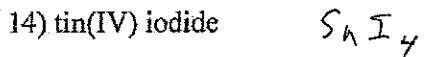
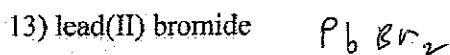
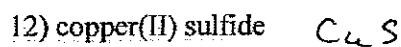
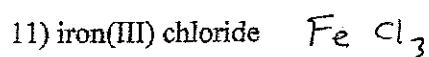
Practice Problems (Answer using the Stock system.)

Write the correct formula for:

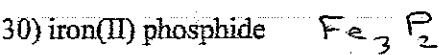
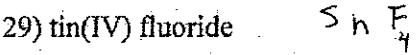
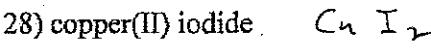
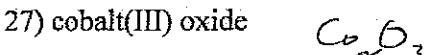
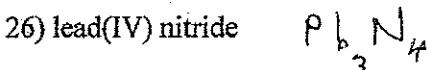
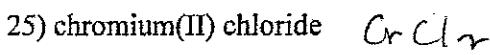
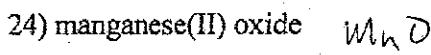
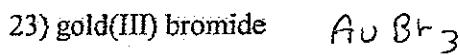
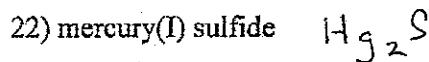
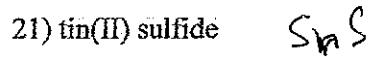


Special words about mercury

Answers to Set One



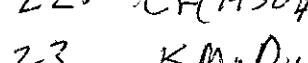
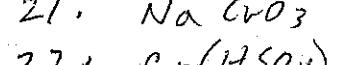
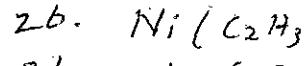
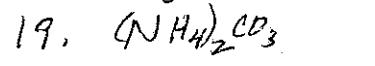
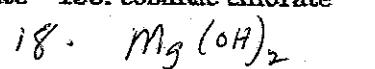
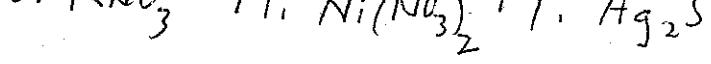
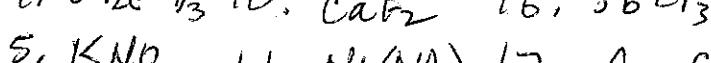
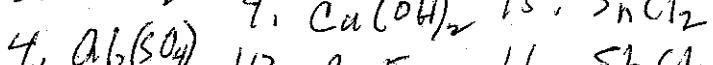
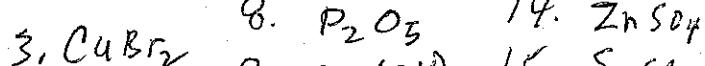
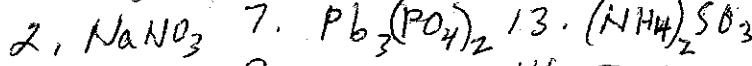
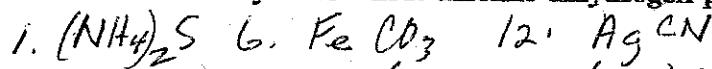
Answers to Set Two



Answers to Set Three

Inorganic Nomenclature Worksheet

- | | | |
|-------------------------------|-------------------------------------|----------------------------------|
| 1. ammonium sulfide | 51. aluminum acetate | 101. sodium acetate |
| 2. sodium nitrate | 52. calcium chloride dihydrate | 102. zinc sulfite |
| 3. cupric bromide | 53. barium chromate | 103. silver bicarbonate |
| 4. aluminum sulfate | 54. cobaltic chloride | 104. potassium iodide |
| 5. potassium nitrate | 55. barium chloride dihydrate | 105. lead(IV) chlorite |
| 6. ferrous carbonate | 56. sulfurous acid | 106. mercurous chromate |
| 7. lead(II) phosphate | 57. potassium hydroxide | 107. lead(II) nitrite |
| 8. diphosphorus pentoxide | 58. zinc bisulfite | 108. potassium dichromate |
| 9. cupric hydroxide | 59. sodium sulfite | 109. magnesium carbonate |
| 10. calcium fluoride | 60. cobaltous sulfate | 110. calcium bicarbonate |
| 11. nickel nitrate | 61. ferric oxide | 111. aluminum hydroxide |
| 12. silver cyanide | 62. silver phosphate | 112. cobaltous oxide |
| 13. ammonium sulfite | 63. sodium hypochlorite | 113. ferric permanganate |
| 14. zinc sulfate | 64. ammonium chromate | 114. ammonium chromate |
| 15. tin(II) chloride | 65. barium carbonate | 115. nitrogen triiodide |
| 16. antimony(III) chloride | 66. calcium iodide | 116. sulfur trioxide |
| 17. silver sulfide | 67. cupric sulfate | 117. ammonium dichromate |
| 18. magnesium hydroxide | 68. cuprous chloride | 118. iron(III) bicarbonate |
| 19. ammonium carbonate | 69. ferric carbonate | 119. ammonium perchlorate |
| 20. nickel acetate | 70. zinc phosphate | 120. cobaltic acetate |
| 21. sodium chromate | 71. sodium nitrite | 121. cobaltous hydroxide |
| 22. chromic bisulfate | 72. silver oxide | 122. iron(II) chromate |
| 23. potassium permanganate | 73. nickel bromide | 123. ferric bromide |
| 24. silver perchlorate | 74. magnesium oxide | 124. zinc sulfate |
| 25. potassium phosphate | 75. mercuric perchlorate | 125. boron phosphide |
| 26. nickel iodide | 76. lithium hypochlorite | 126. ferric bicarbonate |
| 27. mercurous oxide | 77. oxygen difluoride | 127. cupric bisulfate |
| 28. lead(II) chlorite | 78. cobalt(II) hydrogen sulfate | 128. acetic acid (diff. from 79) |
| 29. hydrogen iodide | 79. acetic acid (see #128) | 129. barium bisulfite |
| 30. iron(II) bisulfite | 80. barium hypochlorite | 130. nitric acid |
| 31. magnesium nitrate | 81. ammonium hydroxide | 131. calcium sulfide |
| 32. iron(III) chromate | 82. cobalt(II) iodide | 132. copper(I) bisulfate |
| 33. iron(II) chromate | 83. chromium(II) bicarbonate | 133. zinc permanganate |
| 34. copper(II) hydroxide | 84. sodium hydroxide | 134. ferric carbonate |
| 35. cuprous carbonate | 85. silver nitrate | 135. hydrobromic acid |
| 36. chromic acetate | 86. mercury(II) nitrate | 136. hydrocyanic acid |
| 37. calcium chlorate | 87. hydrochloric acid | 137. hydrogen cyanide |
| 38. ammonium oxide | 88. aluminum bisulfite | 138. sulfuric acid |
| 39. aluminum perchlorate | 89. cobalt(III) hydrogen sulfate | 139. copper(I) sulfate |
| 40. zinc bicarbonate | 90. ferric hydrogen carbonate | 140. chromium(III) oxide |
| 41. sodium phosphate | 91. phosphorus pentabromide | 141. aluminum oxide |
| 42. silver hypochlorite | 92. nickel chloride hexahydrate | 142. cobaltous bisulfate |
| 43. ammonium phosphate | 93. ammonium aluminum sulfate | 143. barium carbonate |
| 44. ferrous chlorite | 94. iron(III) hydrogen carbonate | 144. mercuric chloride |
| 45. potassium sulfide | 95. mercury(I) hydrogen phosphate | 145. ferrous chromate |
| 46. tin(IV) bromide | 96. plumbic hydrogen carbonate | 146. cupric hydroxide |
| 47. lithium chromate | 97. mercuric hydrogen carbonate | 147. perchloric acid |
| 48. magnesium bisulfate | 98. mercurous hydrogen phosphate | 148. ferric phosphate |
| 49. ferrous phosphate | 99. copper(II) sulfate pentahydrate | 149. lead(II) oxide |
| 50. calcium sulfate dihydrate | 100. chromic dihydrogen phosphate | 150. cobaltic chloride |



24.	Ag ClO_4	49.	$\text{Fe}_3(\text{PO}_4)_2$
25.	K_3PO_4	50.	$\text{Ca SD}_4 \cdot 2\text{H}_2\text{O}$
26.	Ni I_2	51.	$\text{Al}(\text{C}_2\text{H}_3\text{O}_2)_3$
27.	Hg_2O	52.	$\text{CaCl}_2 \cdot 2\text{H}_2\text{O}$
28.	$\text{Pb(ClO}_2)_2$	53.	$\text{Ba}(\text{CrO}_3)_2$
29.	H.I	54.	Co Cl_3
30.	$\text{Fe}(\text{HSO}_3)_2$	55.	$\text{BaCl}_2 \cdot 2\text{H}_2\text{O}$
31.	$\text{Mg}(\text{NO}_3)_2$	56.	H_2SO_3
32.	$\text{Fe}(\text{CrO}_3)_3$	57.	KOH
33.	$\text{Fe}(\text{CrO}_3)_2$	58.	$\text{Zn}(\text{HSO}_3)_2$
34.	Cu(OH)_2	59.	Na_2SO_3
35.	Cu_2CO_3	60.	CoSO_4
36.	$\text{Cr}(\text{C}_2\text{H}_3\text{O}_2)_3$	61.	Fe_2O_3
37.	$\text{Ca}(\text{ClO}_3)_2$	62.	Ag_3PO_4
38.	$(\text{NH}_4)_2\text{O}$	63.	Na ClO
39.	$\text{Al}(\text{ClO}_4)_3$	64.	$(\text{NH}_4)_2\text{CrO}_4$
40.	$\text{Zn}(\text{HCO}_3)_2$	65.	Ba CO_3
41.	Na_3PO_4	66.	Ca I_2
42.	Ag ClO	67.	Cu SO_4
43.	$(\text{NH}_4)_3\text{PO}_4$	68.	Cu Cl
44.	$\text{Fe}(\text{ClO})_2$	69.	$\text{Fe}_2(\text{CO}_3)_3$
45.	K_2S	70.	$\text{Zn}_3(\text{PO}_4)_2$
46.	Sn Br_4	71.	Na NO_2
47.	Li CrO_3	72.	Ag_2O
48.	$\text{Mg}(\text{HSO}_4)_2$	73.	Ni Br_2

If a formula can be named more than one correct way, then give all. For example, $\text{Fe}(\text{HCO}_3)_3$ can be named four different ways. They are iron(III) bicarbonate, iron(III) hydrogen carbonate, ferric bicarbonate, and ferric hydrogen carbonate. The second way would be best.

151. HgF_2	191. KF	231. N_2O_5	271. NaOH	290. XeF_4	328. $\text{Be}(\text{ClO}_4)_2$
152. KCl	192. CaSO_4	232. SnCrO_4	272. Ni_3	291. $\text{Hg}(\text{OH})_2$	329. $(\text{NH}_4)_2\text{Cr}_2\text{O}_7$
153. KMnO_4	193. HCl	233. Al_2O_3	273. ClF_3	292. CaH_2	330. $\text{Ba}(\text{BrO}_3)_2$
154. KClO_4	194. SbCl_3	234. CuCO_3	274. P_3N_5	293. As_4O_6	331. AuCl_3
155. ZnO	195. As_4O_{10}	235. ClO_2	275. UF_6	294. BN	332. Al_2S_3
156. $\text{Ba}(\text{OH})_2$	196. NH_4Cl	236. CuS	276. NBr_3	295. CoS	333. Na_2HPO_4
157. NH_4MnO_4	197. NH_4NO_3	237. MgI_2	277. Cl_2O_3	296. N_2O_4	334. $\text{Mg}_3(\text{PO}_4)_2$
158. CaCO_3	198. IF_5	238. CoCl_3	278. CsF	297. H_3BO_3	335. CuSO_3
159. $\text{Ba}_3(\text{PO}_4)_2$	199. NaHCO_3	239. NaCN	279. CO	298. I_2O_5	336. $\text{KAl}(\text{C}_2\text{O}_4)_2$
160. Fe_2O_3	200. $\text{Ba}(\text{OH})_2$	240. Hg_3N_2	280. Cu_2S	299. PbO	337. $\text{Cr}_2(\text{SO}_3)_3$
161. CoF_3	201. FeCl_3	241. BrO_3	281. KHCO_3	300. NaBr	338. HClO
162. H_2CO_3	202. HF	242. SiF_4	282. SbCl_5	301. Li_2CrO_4	339. HClO_2
163. K_2SO_4	203. PbSO_4	243. Sb_2O_5	283. CO_2	302. ICl	340. HClO_3
164. NaHSO_4	204. KrF_2	244. LiH	284. HgO	303. SO_3	341. HClO_4
165. PF_5	205. NaCl	245. SF_6	285. PCl_3	304. Hg_2O	342. $\text{Mn}(\text{IO}_3)_2$
166. Ag_2O	206. P_2O_5	246. SnI_4	286. PBr_5	305. NaH	343. KBrO_3
167. $\text{Pb}(\text{ClO}_2)_2$	207. AlBr_3	247. KOH	287. IF_7	306. OsO_4	344. $\text{Fe}(\text{ClO}_4)_3$
168. Cu_2CrO_4	208. $\text{Ba}(\text{NO}_3)_2$	248. K_2O	288. Cl_2O	307. XeF_2	345. $\text{Cr}(\text{OH})_3$
169. $\text{Ca}(\text{ClO}_4)_2$	209. BrF_5	249. H_2SO_4	289. CCl_4	308. $\text{Ca}(\text{C}_2\text{H}_3\text{O}_2)_2$	
170. $\text{HC}_2\text{H}_3\text{O}_2$	210. P_4O_6	250. lithium oxide		309. $\text{NaC}_2\text{H}_3\text{O}_2$	
171. LiI	211. FePO_4	251. xenon trioxide		310. $\text{Al}(\text{OH})_3$	
172. $\text{Al}_2(\text{SO}_4)_3$	212. Hg_2SO_4	252. gold(I) chloride		311. Li_2HPO_4	
173. HBr	213. KH	253. gold(I) cyanide		312. $\text{Ca}(\text{NO}_3)_2$	
174. $\text{Hg}_2(\text{ClO}_2)_2$	214. $\text{Co}_2(\text{SO}_3)_3$	254. sodium oxide		313. $\text{Ni}(\text{ClO}_4)_2$	
175. CrCl_3	215. N_2O_3	255. potassium chlorate		314. $\text{Mn}(\text{NO}_3)_2$	
176. H_3PO_4	216. N_2O	256. mercurous nitrite		315. $\text{An}(\text{H}_2\text{PO}_4)_3$	
177. LiMnO_4	217. $\text{Fe}(\text{NO}_2)_3$	257. nickel(II) fluoride		316. $\text{Al}(\text{C}_2\text{H}_3\text{O}_2)_3$	
178. $\text{Fe}_2(\text{HPO}_4)_3$	218. $\text{Sn}_3(\text{PO}_4)_2$	258. potassium cyanide		317. $\text{KAl}(\text{SO}_4)_2$	
179. Na_2CO_3	219. H_2O_2	259. manganese dioxide		318. $\text{Al}(\text{MnO}_4)_3$	
180. $\text{Mg}(\text{HCO}_3)_2$	220. $\text{Be}(\text{OH})_2$	260. osmium tetrachloride		319. $(\text{NH}_4)_3\text{PO}_4$	
181. $\text{Sn}_3(\text{PO}_4)_4$	221. $\text{Sr}(\text{HCO}_3)_2$	261. rubidium carbonate		320. $\text{CoSO}_4 \cdot 6 \text{ H}_2\text{O}$	
182. HNO_3	222. $\text{Sr}(\text{OH})_2$	262. trisulfur dinitride		321. $\text{MgCl}_2 \cdot 6 \text{ H}_2\text{O}$	
183. ZnCl_2	223. P_4S_{10}	263. nitrogen trichloride		322. $\text{CuSO}_4 \cdot 5 \text{ H}_2\text{O}$	
184. NaH_2PO_4	224. Hg_2O_2	264. vanadium(V) oxide		323. $\text{NaHS} \cdot \text{H}_2\text{O}$	
185. Hg_2Cl_2	225. $\text{Hg}_2(\text{OH})_2$	265. selenium tetrafluoride		324. $\text{MgSO}_4 \cdot 9 \text{ H}_2\text{O}$	
186. $\text{Fe}(\text{NO}_2)_2$	226. NH_4F	266. stannous hypochlorite		325. $\text{NaH}_2\text{PO}_4 \cdot 9 \text{ H}_2\text{O}$	
187. CuNH_4PO_4	227. XeF_6	267. tellurium hexafluoride		326. $\text{Na}_2\text{CrO}_4 \cdot 4 \text{ H}_2\text{O}$	
188. NaMgPO_4	228. $\text{K}_2\text{Cr}_2\text{O}_7$	268. lanthanum(III) phosphate		327. $\text{Pb}(\text{CH}_3\text{COO})_2 \cdot 3 \text{ H}_2\text{O}$	
189. $\text{Sn}(\text{HCO}_3)_4$	229. NH_4OH	269. sodium hydrogen sulfate monohydrate			
190. NaMnO_4	230. $(\text{NH}_4)_3\text{PO}_4$	270. chromium(III) hydrogen phosphate			

151. mercury (II) fluoride
 152. potassium chloride
 153. potassium permanganate
 154. potassium perchlorate
 155. zinc oxide
156. calcium carbonate
 157. barium phosphate
 158. iron(III) oxide
 159. barium phosphate
 160. iron (II) oxide

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| 161. cobalt (III) fluoride | 186. iron (II) nitrate |
| 162. carbonic acid | 187. copper (II) ammonium phosphate |
| 163. potassium sulfate | 188. sodium magnesium phosphate |
| 164. sodium bisulfate | 189. tin (IV) hydrogen carbonate |
| 165. phosphorus pentafluoride | 190. sodium permanganate |
| 166. silver oxide | 191. potassium fluoride |
| 167. lead (II) chlorite | 192. calcium sulfate |
| 168. copper (I) perchlorate | 193. ^{hydrochloric acid} hydrogen chloride |
| 169. calcium perchlorate | 194. antimony chloride |
| 170. acetic acid | 195. or tetroarsenic decaoxide |
| 171. lithium iodide | 196. ammonium chloride |
| 172. aluminum sulfate
^{hydrobromic acid} | 197. ammonium nitrate |
| 173. hydrogen bromide | 198. sodium pentافluoride |
| 174. mercury (I) hypochlorite | 199. sodium hydrogen carbonate |
| 175. chromium (III) chloride | 200. barium hydroxide |
| 176. phosphoric acid | 201. iron (III) chloride |
| 177. lithium permanganate | 202. hydrofluoric acid |
| 178. iron (III) hydrogenphosphate | 203. lead (II) sulfate |
| 179. sodium carbonate | 204. krypton difluoride |
| 180. magnesium hydrogen carbonate | 205. sodium chloride |
| 181. tin (IV) phosphate | 206. diphosphorus pentoxide |
| 182. nitric acid | 207. aluminum bromide |
| 183. zinc chloride | 208. barium nitrate |
| 184. sodium dihydrogen phosphate | 209. boron pentafluoride |
| 185. mercury (II) chloride | 210. tetraphosphorus hexoxide |

Acid Nomenclature Worksheet Name _____

KEY

Write the formula for each of the acids listed below:

1. Nitric acid	HNO ₃
2. Chloric acid	HClO ₃
3. Acetic acid	HC ₂ H ₃ O ₂
4. Hydrobromic acid	HBr
5. Sulfurous acid	HSO ₃
6. Chlorous acid	HClO ₂
7. Hydrochloric acid	HCl
8. Phosphoric acid	H ₃ PO ₄
9. Nitrous acid	HNO ₂
10. Hydrofluoric acid	HF
11. Perchloric acid	HClO ₄
12. Hydroiodic acid	HI
13. Phosphorous acid	H ₃ PO ₃
14. Carbonic acid	H ₂ CO ₃
15. Sulfuric acid	H ₂ SO ₄

Name each of the following acids:

16. HClO ₄	perchloric acid
17. H ₃ PO ₄	phosphoric acid
18. HCl _(aq)	hydrochloric acid
19. H ₂ SO ₄	sulfuric acid
20. HNO ₂	nitrous acid
21. HI _(aq)	hydroiodic acid
22. HC ₂ H ₃ O ₂	acetic acid
23. HF _(aq)	hydrofluoric acid
24. H ₃ PO ₃	phosphorous acid
25. HClO ₃	chloric acid
26. H ₂ CO ₃	carbonic acid
27. H ₂ SO ₃	sulfurous acid
28. HClO ₂	chlorous acid
29. HNO ₃	nitric acid
30. HBr _(aq)	hydrobromic acid