

Name: Key

Block: _____

Date: _____

Inorganic Naming Worksheet

A) Write the formulas for the following names:

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| 1. Ammonium sulphide $(\text{NH}_4)_2\text{S}$ | 22. Potassium permanganate KMnO_4 |
| 2. Sodium nitrate NaNO_3 | 23. Silver perchlorate AgClO_4 |
| 3. Copper(II) bromide CuBr_2 | 24. Potassium phosphate K_3PO_4 |
| 4. Aluminum sulphate $\text{Al}_2(\text{SO}_4)_3$ | 25. Nickel(II) iodide NiI_2 |
| 5. Potassium nitrate KNO_3 | 26. Lead(II) chlorite $\text{Pb}(\text{ClO}_2)_2$ |
| 6. Iron(II) carbonate FeCO_3 | 27. Hydroiodic acid HI |
| 7. Lead(II) phosphate $\text{Pb}_3(\text{PO}_4)_2$ | 28. Iron(II) bisulfite $\text{Fe}(\text{HSO}_3)_2$ |
| 8. Diphosphorous pentoxide P_2O_5 | 29. Magnesium nitrate $\text{Mg}(\text{NO}_3)_2$ |
| 9. Calcium fluoride CaF_2 | 30. Iron(III) chromate $\text{Fe}_2(\text{CrO}_4)_3$ |
| 10. Nickel(II) nitrate $\text{Ni}(\text{NO}_3)_2$ | 31. Iron(II) chromate FeCrO_4 |
| 11. Silver cyanide AgCN | 32. Copper(II) hydroxide $\text{Cu}(\text{OH})_2$ |
| 12. Ammonium sulphite $(\text{NH}_4)_2\text{SO}_3$ | 33. Copper(I) carbonate Cu_2CO_3 |
| 13. Tin(II) chloride SnCl_2 | 34. Calcium chlorate $\text{Ca}(\text{ClO}_3)_2$ |
| 14. Zinc sulphate ZnSO_4 | 35. Ammonium oxide $(\text{NH}_4)_2\text{O}$ |
| 15. Antimony(III) chloride SbCl_3 | 36. Aluminum perchlorate $\text{Al}(\text{ClO}_4)_3$ |
| 16. Silver ^{Sulphide} Ag_2S | 37. Zinc bicarbonate $\text{Zn}(\text{HCO}_3)_2$ |
| 17. Magnesium hydroxide $\text{Mg}(\text{OH})_2$ | 38. Sodium phosphate Na_3PO_4 |
| 18. Ammonium carbonate $(\text{NH}_4)_2\text{CO}_3$ | 39. Silver hypochlorite AgClO |
| 19. Nickel(II) acetate $\text{Ni}(\text{CH}_3\text{COO})_2$ | 40. Ammonium phosphate $(\text{NH}_4)_3\text{PO}_4$ |
| 20. Sodium chromate Na_2CrO_4 | 41. Iron(II) chlorite $\text{Fe}(\text{ClO}_2)_2$ |
| 21. Chromium(III) bisulphate $\text{Cr}(\text{HSO}_4)_3$ | 42. Potassium sulphide K_2S |

43. Tin(IV) bromide SnBr_4
44. Lithium chromate Li_2CrO_4
45. Magnesium bisulphate $\text{Mg}(\text{HSO}_4)_2$
46. Calcium sulphate dihydrate $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$
47. Aluminum acetate $\text{Al}(\text{CH}_3\text{COO})_3$
48. Calcium chloride dihydrate $\text{CaCl}_2 \cdot 2\text{H}_2\text{O}$
49. Barium chromate BaCrO_4
50. Barium chloride dihydrate $\text{BaCl}_2 \cdot 2\text{H}_2\text{O}$
51. Sulphurous acid H_2SO_3
52. Potassium hydroxide KOH
53. Zinc bisulphate $\text{Zn}(\text{HSO}_4)_2$
54. Sodium sulphite Na_2SO_3
55. Cobalt(II) sulphate CoSO_4
56. Silver phosphate Ag_3PO_4
57. Sodium hypochlorite NaClO
58. Ammonium chromate $(\text{NH}_4)_2\text{CrO}_4$
59. Barium carbonate BaCO_3
60. Calcium iodide CaI_2
61. Copper(II) sulphate CuSO_4
62. Copper(I) chloride CuCl
63. Zinc phosphate $\text{Zn}_3(\text{PO}_4)_2$
64. Sodium nitrate NaNO_3
65. Silver oxide Ag_2O
66. Nickel(II) bromide NiBr_2
67. Magnesium oxide MgO
68. Lithium hypochlorite LiClO
69. oxygen difluoride OF_2
70. Cobalt(II) hydrogen sulphate $\text{Co}(\text{HSO}_4)_2$
71. Acetic acid $\text{HCH}_3\text{COO} \rightarrow \text{CH}_3\text{COOH}$
72. Barium hypochlorite $\text{Ba}(\text{ClO})_2$
73. Ammonium hydroxide NH_4OH
74. Cobalt(II) iodide CoI_2
75. Chromium(II) bicarbonate $\text{Cr}(\text{HCO}_3)_2$
76. Sodium hydroxide NaOH
77. Silver nitrate AgNO_3
78. Mercury(II) nitrate $\text{Hg}(\text{NO}_3)_2$
79. Hydrochloric acid HCl
80. Aluminum bisulphite $\text{Al}(\text{HSO}_3)_3$
81. Cobalt(III) hydrogen sulphate $\text{Co}(\text{HSO}_4)_3$
82. Phosphorous pentabromide PBr_5
83. Nickel(II) chloride hexahydrate $\text{NiCl}_2 \cdot 6\text{H}_2\text{O}$
84. Ammonium sulphate $(\text{NH}_4)_2\text{SO}_4$
85. Iron(III) hydrogen carbonate $\text{Fe}(\text{HCO}_3)_3$
86. Mercury(I) hydrogen phosphate Hg_2HPO_4
87. Copper(II) sulphate pentahydrate $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$
88. Sodium acetate NaCH_3COO
89. Zinc sulphite ZnSO_3
90. Silver bicarbonate AgHCO_3

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|----------------------------|-------------------|---------------------------|---------------|
| 91. Potassium iodide | KI | 107. Hydrobromic acid | HBr |
| 92. Lead(IV) chlorite | $Pb(ClO_2)_4$ | 108. Barium bisulphite | $Ba(HSO_3)_2$ |
| 93. Lead(II) nitrite | $Pb(NO_2)_2$ | 109. Nitric acid | HNO_3 |
| 94. Potassium dichromate | $K_2Cr_2O_7$ | 110. Calcium sulfide | CaS |
| 95. Magnesium carbonate | $MgCO_3$ | 111. Copper(I) bisulphate | $CuHSO_4$ |
| 96. Calcium bicarbonate | $Ca(HCO_3)_2$ | 112. Zinc permanganate | $Zn(MnO_4)_2$ |
| 97. Aluminum hydroxide | $Al(OH)_3$ | 113. Hydrofluoric acid | HF |
| 98. Ammonium chromate | $(NH_4)_2CrO_4$ | 114. Hydrocyanic acid | HCN |
| 99. Nitrogen triiodide | NI_3 | 115. Sulphuric acid | H_2SO_4 |
| 100. Sulphur trioxide | SO_3 | 116. Sulphurous acid | H_2SO_3 |
| 101. Ammonium dichromate | $(NH_4)_2Cr_2O_7$ | 117. Copper(I) sulphate | Cu_2SO_4 |
| 102. Iron(III) bicarbonate | $Fe(HCO_3)_3$ | 118. Chromium(III) oxide | Cr_2O_3 |
| 103. Ammonium perchlorate | NH_4ClO_4 | 119. Aluminum oxide | Al_2O_3 |
| 104. Iron(II) chromate | $FeCrO_4$ | 120. Barium carbonate | $BaCO_3$ |
| 105. Zinc sulphate | $ZnSO_4$ | 121. Perchloric acid | $HClO_4$ |
| 106. Boron monophosphide | BP | 122. Lead(II) oxide | PbO |

B) Write the names for the following chemical formulas:

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|----------------------|---------------------------------|---------------------|-----------------------------|
| 123. $NaMnO_4$ | Sodium permanganate | 129. $Sn_3(PO_4)_4$ | Tin(IV) phosphate |
| 124. H_3PO_4 | Phosphoric acid | 130. HNO_3 | Nitric acid |
| 125. $LiMnO_4$ | Lithium permanganate | 131. $ZnCl_2$ | Zinc chloride |
| 126. $Fe_2(HPO_4)_3$ | Iron(II) Monohydrogen phosphate | 132. NaH_2PO_4 | Sodium dihydrogen phosphate |
| 127. Na_2CO_3 | Sodium carbonate | 133. $HgCl$ | Mercury(I) chloride |
| 128. $Mg(HCO_3)_2$ | Magnesium bicarbonate | 134. $Fe(NO_2)_2$ | Iron(II) nitrite |

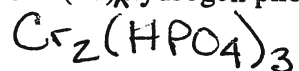
- $\text{Cu}_3(\text{PO}_4)_2$ Copper(II) phosphate
 135. ~~$\text{Sn}(\text{HCO}_3)_4$ Tin(IV) bicarbonate~~ 159. PF_5 Phosphorous pentafluoride
136. Na_3PO_4 Sodium phosphate 160. Ag_2O Silver oxide
137. $\text{Sn}(\text{HCO}_3)_4$ Tin(IV) bicarbonate 161. CuCrO_4 Copper(II) chromate
138. KF Potassium fluoride 162. $\text{Ca}(\text{ClO}_4)_2$ Calcium perchlorate
139. CaSO_4 Calcium sulphate 163. $\text{HC}_2\text{H}_3\text{O}_2$ Acetic acid
140. HCl Hydrochloric acid 164. LiI Lithium iodide
141. SbCl_3 Antimony trichloride 165. HBr Hydrobromic acid
142. NH_4Cl Ammonium chloride 166. $\text{Hg}_2(\text{ClO})_2$ Mercury(I) hypochlorite
143. NH_4NO_3 Ammonium nitrate 167. CrCl_3 Chromium(III) chloride
144. IF_5 Iodine pentafluoride 168. FeCl_2 Iron(II) chloride
145. NaHCO_3 Sodium bicarbonate 169. HF Hydrofluoric acid
146. HgF_2 Mercury(II) fluoride 170. PbSO_4 Lead(II) sulphate
147. KCl Potassium chloride 171. KrF_2 Krypton difluoride
148. KMnO_4 Potassium permanganate 172. NaCl Sodium chloride
149. KClO_4 Potassium perchlorate 173. AlBr_3 Aluminum bromide
150. ZnO Zinc oxide 174. $\text{Ba}(\text{NO}_3)_2$ Barium nitrate
151. NH_4MnO_4 Ammonium permanganate 175. BrF_5 Bromine pentafluoride
152. CaCO_3 Calcium carbonate 176. P_4O_6 Tetraphosphorous hexoxide
153. $\text{Ba}_3(\text{PO}_4)_2$ Barium phosphate 177. FePO_4 Iron(III) phosphate
154. Fe_2O_3 Iron(III) oxide 178. KH Potassium hydride
155. CoF_3 Cobalt(III) fluoride 179. $\text{Co}_2(\text{SO}_3)_3$ Cobalt(III) sulphite
156. H_2CO_3 Carbonic acid 180. N_2O_3 Dinitrogen trioxide
157. K_2SO_4 Potassium sulphate 181. $\text{Sn}_3(\text{PO}_4)_2$ Tin(II) phosphate
158. NaHSO_4 Sodium bisulphate 182. H_2O_2 Dihydrogen dioxide

183. $\text{Be}(\text{OH})_2$ Beryllium hydroxide 196. Al_2O_3 Aluminum oxide
 184. $\text{Sr}(\text{HCO}_3)_2$ Strontium bicarbonate 197. CuCO_3 Copper(II) carbonate
 185. $\text{Sr}(\text{OH})_2$ Strontium hydroxide 198. CuS Copper(II) sulphide
 186. P_4S_{10} Tetraphosphorous deca sulphide 199. CoCl_3 Cobalt(III) chloride
 187. HgO Mercury(II) oxide 200. Hg_3N_2 Mercury(II) nitride
 188. HgOH Mercury(I) hydroxide 201. SiF_4 Silicon tetrafluoride
 189. NH_4F Ammonium fluoride 202. Sb_2O_5 Diarsimony pentoxide
 190. XeF_6 Xenon hexafluoride 203. LiH Lithium hydride
 191. $\text{K}_2\text{Cr}_2\text{O}_7$ Potassium dichromate 204. SF_6 Sulphur hexafluoride
 192. NH_4OH Ammonium hydroxide 205. KOH Potassium hydroxide
 193. $(\text{NH}_4)_3\text{PO}_4$ Ammonium phosphate 206. K_2O Potassium oxide
 194. N_2O_5 Dinitrogen pentoxide 207. H_2SO_4 Sulphuric acid
 195. SnCrO_4 Tin(II) chromate 208. HClO Hypochlorous acid

C) Write the formulas for the following chemical compound:

209. Lithium oxide Li_2O
 210. Xenon trioxide XeO_3
 211. Gold(I) chloride AuCl
 212. Gold(I) cyanide AuCN
 213. Sodium oxide Na_2O
 214. Potassium chlorate KClO_3
 215. Nickel(II) fluoride NiF_2
 216. Potassium cyanide KCN
 217. Manganese dioxide MnO_2
 218. Osmium tetrachloride OsCl_4
 219. Rubidium carbonate Rb_2CO_3
 220. Trisulphur dinitride S_3N_2
 221. Nitrogen trichloride NCl_3
 222. Vanadium(V) oxide V_2O_5
 223. Selenium tetrafluoride SeF_4
 224. Tin(II) hypochlorite $\text{Sn}(\text{ClO})_2$
 225. Lanthanum(III) phosphate LaPO_4
 226. Sodium hydrogen sulphate monohydrate $\text{NaHSO}_4 \cdot \text{H}_2\text{O}$

227. Chromium(III)^{mono}hydrogen phosphate



228. Tellurium hexafluoride



D) Write the names for the following chemical formulas:

229. NaOH Sodium hydroxide

250. CaH₂ Calcium hydride

230. NI₃ Nitrogen triiodide

251. BN Boron mononitride

231. ClF₃ Chlorine trifluoride

252. HClO₄ Perchloric acid

232. P₃N₅ Triphosphorous pentanitride

253. PbO Lead(II) oxide

233. UF₆ Uranium hexafluoride

254. ICl Iodine monochloride

234. H₃BO₃ Boric acid

255. Hg₂O Mercury(I) oxide

235. NaBr Sodium bromide

256. NaH Sodium hydride

236. NBr₃ Nitrogen tribromide

257. OsO₄ Osmium(IV) oxide

237. Cl₂O₃ Dichlorine trioxide

258. Cr₂(SO₃)₃ Chromium(III) sulphite

238. CO Carbon monoxide

259. Ca(C₂H₃O₂)₂ Calcium acetate

239. Cu₂S Copper(I) sulphide

260. NaC₂H₃O₂ Sodium acetate

240. KHCO₃ Potassium bicarbonate

261. Al(OH)₃ Aluminum hydroxide

241. CO₂ Carbon dioxide

262. Li₂HPO₄ Lithium monohydrogen phosphate

242. SbCl₅ Antimony pentachloride

263. Ca(NO₃)₂ Calcium nitrate

243. PCl₃ Phosphorous trichloride

264. Ni(ClO₄)₂ Nickel(II) perchlorate

244. PBr₅ Phosphorous pentabromide

265. Au(H₂PO₄)₃ Gold(III) dihydrogen phosphate

245. IF₇ Iodine heptafluoride

266. NaH₂PO₄ · 9H₂O Sodium dihydrogen phosphate nonahydrate

246. Cl₂O Dichlorine monoxide

267. Pb(CH₃COO)₂ · 3H₂O
Lead(II) acetate trihydrate

247. CCl₄ Carbon tetrachloride

268. (NH₄)₂Cr₂O₇
Ammonium dichromate

248. KrF₄ Krypton tetrafluoride

269. Ba(BrO₃)₂
Barium bromate

249. Hg(OH)₂
Mercury(II) hydroxide

270. Al₂S₃
Aluminum sulphide