Chemistry Major Naming Practice Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*Write the corresponding name or formulas for the following compounds*. *Complete these sets in numerical order.*

1. Bases 2. Salts 3. Binary Acids

sodium hydroxide sodium nitrate hydrofluoric acid

***NaOH NaNO3 HF***

magnesium hydroxide magnesium chlorate hydrochloric acid

***Mg(OH)2 Mg(ClO3)2 HCl***

aluminum hydroxide nickel (III) sulfate hydrobromic acid

***Al(OH)3 Ni2(SO4)3 HBr***

calcium hydroxide calcium acetate hydrosulfuric acid

***Ca(OH)2 Ca(C2H3O2)2 H2S***

4. Ternary Acids 5. Covalent Compounds 6. Polyatomic ions 7. Monatomic ions

nitric acid carbon dioxide chromate chloride

***HNO3 CO2 CrO4-2 Cl-1***

nitrous acid carbon monoxide dichromate sulfide

***HNO2 CO Cr2O7-2 S-2***

carbonic acid phosphorous trichloride chlorate phosphide

***H2CO3 PCl3 ClO3-1 P-3***

sulfuric acid dinitrogen pentoxide iodate fluoride

***H2SO4  N2O5 IO3-1 F-1***

8. Mixed Acids 9. Mixed Bases and Salts 10. Mixed Ions

hydrofluoric acid iron (III) hydroxide chlorite

***HF Fe(OH)3 ClO2-1***

sulfurous acid potassium fluorate oxide

***H2SO3 KFO3 O-2***

nitrous acid manganese (IV) nitrate bromate

***HNO2 Mn(NO3)4 BrO3-1***

hydroiodic acid potassium hydroxide nitride

***HI KOH N-3***

phosphoric acid sodium bisulfite phosphite

***H3PO4 NaHSO3 PO3-3***

11. Mixed Acids 12. Mixed Bases and Salts 13. Mixed Ions

H2S AgOH BrO2 -1

***hyrdosulfuric acid silver hydroxide bromite***

H3PO3 NiCr2O7 P -3

***Phosphorous acid nickel (II) dichromate phosphide***

HF Cu(OH)2 SO3-2

***Hydrofluoric acid copper (II) hydroxide sulfite***

H2CO3 MgCrO4 I-1

***Carbonic acid magnesium chromate iodide***

14. Mixed Bag

sodium phosphite ammonium chloride hydrobromic acid

***Na3PO3 NH4Cl HBr***

phosphorous acid aluminum bichromate nickel (II) hydroxide

***H3PO3 Al(HCrO4)3 Ni(OH)2***

iron (III) bromide sulfur hexafluoride magnesium chlorate

***FeBr3 SF6 Mg(ClO3)2***

chromic acid oxygen dichloride potassium fluorite

***H2CrO4 OCl2 KFO2***

Major Naming Practice – Honors Style Mixed bag:

hydrogen sulfate potassium perchlorate hydrogen phosphide

***H2SO4 KClO4 H3P***

sodium biphosphate aluminum periodate chromium (III) oxide

***Na2HPO4 Al(IO4)3 Cr2O3***

selenic acid carbon disulfide tricarbon diphosphide

***H2SeO4 CS2 C3P2***

carbon tetrachloride sulfur trioxide silver nitrate

***CCl4 SO3 AgNO3***

iron (II) sulfate lead (IV) oxide tin (IV) dichromate

***FeSO4 PbO2 Sn(Cr2O7)2***

FePO4 PbO SnCr2O7

***Iron (III) phosphate lead (II) oxide Tin (II) dichromate***

CO Mn(HSO3)2 SO2

***Carbon monoxide Manganese (II) Bisulfite sulfur dioxide***

Ag2HPO3 CuHCrO4 HClO4

***Silver biphosphite copper (I) bichromate perchloric acid***

(NH4)2CrO4 PF5 Al(BrO2)3

***Ammonium chromate phosphorus pentafluoride aluminum bromite***

H3AsO4 H2Se HgHCO3

***Arsenic acid hydroselenic acid mercury (I) bicarbonate***

Major Naming Practice – Honors Style Mixed bag – page 2:

HCl PbS2 Sn(CrO4)2

***Hydrochloric acid lead (IV) sulfide Tin (IV) chromate***

HF Mn(HPO3)2 SO3

***Hydrofluoric acid manganese (IV) biphosphite sulfur trioxide***

HClO3 Cu(HCr2O7)2 HClO2

***Chloric acid copper (II) bidichromate chlorous acid***

HClO3 (salt) PCl5 Al(BrO4)3

***Hydrogen chlorate phosphorus pentachloride aluminum perbromate***

H3AsO3 (salt) H2SeO3 Hg(HCO3)2

***Hydrogen arsenite selenous acid mercury (II) bicarbonate***

Sodium hydride Magnesium perbromate Sodium periodate

***NaH Mg(BrO4)2 NaIO4***

Acetic acid aluminum hydroxide ammonium oxide

***HC2H­3O2 Al(OH)3 (NH4)2O***

Hydroselenic acid carbon dioxide carbon monosulfide

***H2Se CO2 CS***

Selenic acid sulfur dioxide silver chromate

***H2SeO4 SO2 Ag2CrO4***

FeSO3 PbO SnCO3

***Iron (II) sulfite Lead (II) oxide Tin (II) carbonate***

iron (II) sulfite lead (IV) oxide tin (IV) carbonate

***FeSO3 PbO2 Sn(CO3)2***