Name:_____

Nomenclature Quiz #2 – SCH 4C

C^{4-}	carbide	CO_3^{2-}	carbonate
N^{3-}	nitride	NO_3^{1-}	nitrate
O^{2-}	oxide	PO_4^{3-}	phosphate
F^{1-}	fluoride	SO_4^{2-}	sulphate
P^{3-}	phosphide	ClO_3^{1-}	chlorate
S^{2-}	sulphide	OH^{1-}	hydroxide
Cl^{1-}	chloride	CN^{1-}	cyanide
As^{3-}	arsenide		
Se^{2-}	selenide	NH_4^{1+}	ammonium
Br^{1-}	bromide		
Sb^{3-}	antimonide		
Te^{2-}	telluride		
I^{1-}	iodide		

1. Simple monovalent cation (only one oxidation state), elemental anion (ends in ide)

a) NaCl sodium chloride

b) Al_2O_3 aluminum oxide

c) Na_2O sodium oxide

d) K_3N potassium nitride

e) Li_2S lithium sulphide

f) calcium sulphide CaS

g) potassium oxide K_2O

h) magnesium chloride $MgCl_2$

i) zirconium sulphide ZrS_2

j) zinc bromide $ZnBr_2$

2. Polyvalent Cation (more than one possible oxidation state), elemental anion.

1	2	3	4	5	6	7	8	9	10
I	II	III	IV	V	VI	VII	VIII	IX	X

a) copper(II) nitride Cu_3N_2

b) copper(I) nitride Cu_3N

c) tin(IV) oxide SnO_2

d) tin(II) oxide SnO

e) lead(IV) nitride Pb_3N_4

f) $AuCl_3$ gold(III) chloride

g) PCl_5 phosphorus(V) chloride

h) CuS copper(II) sulphide

i) CuI copper(I) iodide

j) As_2O_3 arsenic(III) oxide

3. Simple monovalent cation with polyatomic anions.

a) lithium sulphate Li_2SO_4

b) magnesium hydroxide $Mg(OH)_2$

c) zinc carbonate $ZnCO_3$

d) sodium phosphate Na_3PO_4

e) aluminum nitrate $Al(NO_3)_3$

f) Na_2SO_4 sodium sulphate

g) $Ca(NO_3)_2$ calcium nitrate

h) K_2CO_3 potassium carbonate

i) $(NH_4)_3PO_4$ ammonium phosphate

j) KOH potassium hydroxide

4. Polyvalent cation with polyatomic ion.

a) tin(II) carbonate $SnCO_3$

b) gold(III) sulphate $Au_2(SO_4)_3$

c) lead(II) phosphate $Pb_3(PO_4)_2$

d) copper(II) sulphate $CuSO_4$

e) mercury(I) oxide Hg_2O

f) $Au(OH)_3$ gold(III) hydroxide

g) $Cu(ClO_3)_2$ copper(II) chlorate

h) $Pb_3(PO_4)_4$ lead(IV) phosphate

i) $Sn(CO_3)_2$ tin(IV) carbonate

j) $Co(NO_3)_2$ cobalt(II) nitrate

5. Mixed Problems!!!!!

a) CO_2 carbon(IV) oxide

b) MgO magnesium oxide

c) $(NH_4)_3PO_4$ ammonium phosphate

d) Ag_2CO_3 silver carbonate

e) V_2O_5 vanadium(V) oxide

f) $PbSO_4$ lead(II) sulphate

g) NaCl sodium chloride

h) $Mg(NO_3)_2$ magnesium nitrate

i) $IrCl_3$ iridium(III) chloride

j) $Pt_3(PO_4)_4$ platinum(IV) phosphate