

Name: _____

Nomenclature Quiz #1 - 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) K₂O potassium oxide
- c) MgCl₂ magnesium chloride
- d) Al₂S₃ aluminum sulphide
- e) Cs₃N cesium nitride
- f) lithium arsenide Li₃As
- g) sodium bromide NaBr
- h) calcium phosphide Ca₃P₂
- i) magnesium carbide Mg₂C
- j) aluminum oxide Al₂O₃

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) iron(II) chloride FeCl₂
- b) iron(II) sulphide FeS
- c) lead(IV) bromide PbBr₄
- d) lead(IV) oxide PbO₂
- e) tin(IV) nitride Sn₃N₄
- f) NiCl₂ nickel(II) chloride
- g) Au₂O₃ gold(III) oxide
- h) Hg₂O mercury(I) oxide
- i) CuCl₂ copper(II) chloride
- j) PI₃ phosphorus(III) iodide

3. Simple monovalent cation with polyatomic anions.

- a) sodium carbonate Na₂CO₃
- b) ammonium nitrate NH₄NO₃
- c) silver phosphate Ag₃PO₄
- d) zinc hydroxide Zn(OH)₂
- e) aluminum sulphate Al₂(SO₄)₃
- f) K₂CO₃ potassium carbonate
- g) Mg(ClO₃)₂ magnesium chlorate
- h) Sc₂(CO₃)₃ scandium carbonate
- i) Ca(OH)₂ calcium hydroxide
- j) Na₃PO₄ sodium phosphate

4. Polyvalent cation with polyatomic ion.

- a) platinum(IV) chlorate Pt(ClO₃)₄
- b) gold(I) sulphate Au₂SO₄
- c) gold(III) carbonate Au₂(CO₃)₃
- d) lead(IV) hydroxide Pb(OH)₄
- e) iridium(VI) phosphate Ir(PO₄)₂
- f) Au₃PO₄ gold(I) phosphate
- g) Sb₂(SO₄)₅ antimony(V) sulphate
- h) As(OH)₃ arsenic(III) hydroxide
- i) Au(CN)₃ gold(III) cyanide
- j) PbSO₄ lead(II) sulphate

5. Mixed Problems!!!!

- a) CS₂ carbon(IV) sulphide
- b) Na₂SO₄ sodium sulphate
- c) SnCl₄ tin(IV) chloride
- d) InCl₃ indium chloride
- e) (NH₄)₂SO₄ ammonium sulphate
- f) Cu(NO₃)₂ copper(II) nitrate
- g) OsO₃ osmium(VI) oxide
- h) Ni(ClO₃)₃ nickel(III) chlorate
- i) Zr(SO₄)₂ zirconium sulphate
- j) CrO₃ chromium(VI) oxide