

NOMENCLATURE #1 - SCH 3U

Name: _____

Monovalent Cations, Elemental Anions**Provide Names or Formula:**

1	MgCl ₂	magnesium chloride	21	potassium bromide	KBr
2	BaBr ₂	barium bromide	22	magnesium nitride	Mg ₃ N ₂
3	Rb ₂ S	rubidium sulphide	23	rubidium oxide	Rb ₂ O
4	CaF ₂	calcium fluoride	24	barium oxide	BaO
5	K ₂ S	potassium sulphide	25	lithium chloride	LiCl
6	Rb ₃ N	rubidium nitride	26	calcium iodide	CaI ₂
7	InBr ₃	indium bromide	27	sodium telluride	Na ₂ Te
8	Al ₂ O ₃	aluminum oxide	28	sodium fluoride	NaF
9	SrS	strontium sulphide	29	barium phosphide	Ba ₃ P ₂
10	Mg ₃ N ₂	magnesium nitride	30	aluminum sulphide	Al ₂ S ₃
11	Ca ₂ C	calcium carbide	31	radium chloride	RaCl ₂
12	LiI	lithium iodide	32	strontium selenide	SrSe
13	H ₂ O	hydrogen oxide	33	francium oxide	Fr ₂ O
14	HCl	hydrogen chloride	34	hydrogen sulphide	H ₂ S
15	Be ₂ N ₃	beryllium nitride	35	magnesium arsenide	Mg ₃ As ₂
16	CaCl ₂	calcium chloride	36	beryllium iodide	BeI ₂
17	RaO	radium oxide	37	calcium oxide	CaO
18	KI	potassium iodide	38	potassium oxide	K ₂ O
19	GaAs	gallium arsenide	39	potassium chloride	KCl
20	BaTe	barium telluride	40	zinc chloride	ZnCl ₂

NOMENCLATURE #2 - SCH 3U

Name: _____

Polyvalent Cations, Elemental Anions**Provide Names:**

1	KBr	potassium bromide	11	In ₂ O ₃	indium oxide
2	Li ₂ O	lithium oxide	12	MnO ₂	manganese(IV) oxide manganic oxide
3	PCl ₃	phosphorus(III) chloride phosphorous chloride	13	Fe ₂ O ₃	iron(III) oxide ferric oxide
4	PCl ₅	phosphorus(V) chloride phosphoric chloride	14	FeS	iron(II) sulphide ferrous sulphide
5	AgCl	silver chloride	15	Al ₂ O ₃	aluminum oxide
6	LiF	lithium fluoride	16	MgO	magnesium oxide
7	HgO	mercury(II) oxide mercuric oxide	17	PbCl ₄	lead(IV) chloride plumbic chloride
8	CdBr ₂	cadmium bromide	18	PbO	lead(II) oxide plumbous oxide
9	AuN	gold(III) nitride auric nitride	19	CuCl	copper(I) chloride cuprous chloride
10	OsO ₃	osmium(VI) oxide	20	Ni ₂ O ₃	nickel(III) oxide nickelic oxide

Provide Formula:

21	chromium(VI) oxide	CrO ₃	26	stannous oxide	SnO
22	arsenic fluoride	AsF ₅	27	lead(IV) oxide	PbO ₂
23	ferrous sulphide	FeS	28	mercuric chloride	HgCl ₂
24	strontium arsenide	Sr ₃ As ₂	29	mercurous chloride	HgCl
25	barium nitride	Ba ₃ N ₂	30	cobaltic sulphide	Co ₂ S ₃

NOMENCLATURE #3 - SCH 3U

Name: _____

Polyvalent Cations, Elemental Anions**Provide Names or Formula:**

1	Fe ₂ O ₃	iron(III) oxide	16	stannous chloride	SnCl ₂
		ferric oxide	17	arsenic chloride	AsCl ₅
2	FeO	iron(II) oxide	18	antimonous oxide	Sb ₂ O ₃
		ferrous oxide	19	lithium chloride	LiCl
3	Au ₂ O ₃	gold(III) oxide	20	gold(III) nitride	AuN
		auric oxide	21	calcium arsenide	Ca ₃ As ₂
4	Hg ₂ O	mercury(I) oxide	22	arsenous chloride	AsCl ₃
		mercurous oxide	23	antimonic oxide	Sb ₂ O ₅
5	CuBr	copper(I) bromide	24	lanthanum fluoride	LaF ₃
		cuprous bromide	25	mercury(I) oxide	Hg ₂ O
6	SnO	tin(II) oxide	26	mercurous sulphide	Hg ₂ S
		stannous oxide	27	osmium(IV) chloride	OsCl ₄
7	PbCl ₂	lead(II) chloride	28	uranium(VI) oxide	UO ₃
		plumbous chloride	29	ferrous nitride	Fe ₃ N ₂
8	Co ₂ S ₃	cobalt(III) sulphide	30	ferric oxide	Fe ₂ O ₃
		cobaltic sulphide	31	cupric oxide	CuO
9	NiCl ₂	nickel(II) chloride	32	zinc oxide	ZnO
		nickelous chloride	33	nickel(III) sulphide	Ni ₂ S ₃
10	CuCl ₂	copper(II) chloride	34	chromium(VI) oxide	CrO ₃
		cupric chloride	35	barium nitride	Ba ₃ N ₂
11	Ag ₃ N	silver nitride	36	bismuth(V) oxide	Bi ₂ O ₅
12	BF ₃	boron flouride	37	tantalum(V) fluoride	TaF ₅
13	K ₂ S	potassium sulphide	38	cuprous oxide	Cu ₂ O
14	OsF ₈	osmium(VIII) flouride	39	aurous sulphide	Au ₂ S
15	TiO ₂	titanium(IV) oxide	40	sulphur(VI) oxide	SO ₃

NOMENCLATURE #4 - SCH 3U

Name: _____

Polyvalent Cations, Polyatomic Anions**Provide Names or Formula:**

1	NaClO ₃	sodium chlorate	19	cobaltous nitrate	Co(NO ₃) ₂
2	NaCl	sodium chloride	20	plumbic sulphate	Pb(SO ₄) ₂
3	Na ₂ SO ₄	sodium sulphate	21	sodium sulphite	Na ₂ SO ₃
4	Na ₂ S	sodium sulphide	22	tin(IV) chloride	SnCl ₄
5	Al ₂ (SO ₄) ₃	aluminum sulphate	23	antimonic phosphate	Sb ₃ (PO ₄) ₅
6	KNO ₃	potassium nitrate	24	aluminum sulphate	Al ₂ (SO ₄) ₃
7	K ₃ PO ₄	potassium phosphate	25	polonium(IV) iodate	Po(IO ₃) ₄
8	Au ₂ (CO ₃) ₃	gold(III) carbonate	26	ferric perchlorate	Fe(ClO ₄) ₃
		auric carbonate	27	manganese(VII) nitrite	Mn(NO ₂) ₇
9	AgNO ₃	silver nitrate	28	auric perchlorate	Au(ClO ₄) ₃
10	KNO ₂	potassium nitrite	29	silver carbonate	Ag ₂ CO ₃
11	Li ₃ PO ₃	lithium phosphite	30	aurous sulphate	Au ₂ SO ₄
12	NaIO ₄	sodium periodate	31	scandium phosphate	ScPO ₄
13	Al(IO ₃) ₃	aluminum iodate	32	stannic hydroxide	Sn(OH) ₄
14	NaBrO ₃	sodium bromate	33	hydrogen cyanide	HCN
15	FeCO ₃	iron(II) carbonate	34	ammonium chloride	NH ₄ Cl
		ferrous carbonate	35	calcium hydroxide	Ca(OH) ₂
16	CuCO ₃	copper(II) carbonate	36	potassium cyanide	KCN
		cupric carbonate	37	cupric phosphite	Cu ₃ (PO ₃) ₂
17	HgClO ₄	mercury(I) perchlorate	38	ammonium carbonate	(NH ₄) ₂ CO ₃
		mercurous perchlorate	39	stannous nitride	Sn ₃ N ₂
18	Pt(ClO ₄) ₄	platinum(IV) perchlorate	40	stannous nitrate	Sn(NO ₃) ₂

NOMENCLATURE #5 - SCH 3U

Name: _____

Acid Nomenclature:

1	HIO ₃ (aq)	iodic acid	21	HNO ₃ (aq)	nitric acid
2	HI(aq)	hydroiodic acid	22	HNO ₂ (aq)	nitrous acid
3	HIO ₃	hydrogen iodate	23	H ₃ PO ₃ (aq)	phosphorous acid
4	HI	hydrogen iodide	24	KNO ₂ (aq)	potassium nitrite solution
5	HClO ₄ (aq)	perchloric acid	25	HF	hydrogen fluoride
6	KClO ₄	potassium perchlorate	26	nitrous acid	NHO ₂ (aq)
7	H ₃ PO ₄ (aq)	phosphoric acid	27	hydrochloric acid	HCl(aq)
8	H ₂ SO ₄ (aq)	sulphuric acid	28	chloric acid	HClO ₃ (aq)
9	HBrO ₃ (aq)	bromic acid	29	chlorous acid	HClO ₂ (aq)
10	HBr(aq)	hydrobromic acid	30	periodic acid	HIO ₄ (aq)
11	H ₂ O	hydrogen oxide	31	hydrogen sulphide	H ₂ S
12	H ₂ S(aq)	hydrosulphuric acid	32	hydrogen peroxide	H ₂ O ₂
13	H ₂ S	hydrogen sulphide	33	sulphurous acid	H ₂ SO ₃ (aq)
14	HClO	hydrogen hypochlorite	34	carbonic acid	H ₂ CO ₃ (aq)
15	HClO ₂ (aq)	chlorous acid	35	hydrogen sulphate	H ₂ SO ₄
16	HClO ₃ (aq)	chloric acid	36	nitric acid	HNO ₃ (aq)
17	HClO ₄ (aq)	perchloric acid	37	sodium phosphate	Na ₃ PO ₄
18	Na ₂ CO ₃	sodium carbonate	38	phosphoric acid	H ₃ PO ₄ (aq)
19	H ₂ CO ₃	hydrogen carbonate	39	hydrosulphuric acid	H ₂ S(aq)
20	H ₂ CO ₃ (aq)	carbonic acid	40	bromic acid	HBrO ₃ (aq)

NOMENCLATURE #6 - SCH 3U

Name: _____

Prefix Method:

1	monomercury oxide	HgO	11	As ₂ O ₅	arsenic pentoxide
2	mercury monochloride	HgCl	12	CO ₂	carbon dioxide
3	nickel trioxide	Ni ₂ O ₃	13	CuO	monocopper oxide
4	iodine heptafluoride	IF ₇	14	PbCl ₄	lead tetrachloride
5	phosphorus pentoxide	P ₂ O ₅	15	Pb(SO ₄) ₂	lead disulphate
6	copper dichloride	CuCl ₂	16	PbO	lead monoxide
7	iron trichloride	FeCl ₃	17	Au ₂ O	gold monoxide
8	chromium trioxide	CrO ₃	18	SnCl ₄	tin tetrachloride
9	sulphur dioxide	SO ₂	19	CO	carbon monoxide
10	sulphur trioxide	SO ₃	20	CaCl ₂	calcium chloride

NOMENCLATURE #7 - SCH 3U**Miscellaneous:**

1	H ₂ O ₂	hydrogen peroxide	11	silver peroxide	Ag ₂ O ₂
2	BaO ₂	barium peroxide	12	sodium bicarbonate	NaHCO ₃
3	AuHSO ₄	gold(I) bisulphate aurous bisulphate	13	ammonium phosphate	(NH ₄) ₃ PO ₄
4	Zn(CN) ₂	zinc cyanide	14	zinc peroxide	ZnO ₂
5	HIO ₄ (aq)	periodic acid	15	ferric hydroxide	Fe(OH) ₃
6	NaHSO ₃	sodium bisulphite	16	potassium bisulphate	KHSO ₄
7	Fe(HCO ₃) ₃	iron(III) bicarbonate ferric bicarbonate	17	calcium bisulphite	Ca(HSO ₃) ₂
8	CdO ₂	cadmium peroxide	18	hydrobromic acid	HBr(aq)
9	Ca(OH) ₂	calcium hydroxide	19	lead(II) bicarbonate	Pb(HCO ₃) ₂
10	Al(OH) ₃	aluminum hydroxide	20	vanadium(IV) hydroxide	V(OH) ₄