

Chemical Compounds and Bonding: Binary Compounds Nomenclature Review

GASES - monatomic and diatomic			
Write Formulas		Write Names	
1.	hydrogen gas	8.	Cl ₂
2.	oxygen gas	9.	Ne
3.	argon gas	10.	N ₂
4.	fluorine gas	11.	Kr
5.	helium gas	12.	Xe
6.	bromine vapour	13.	Rn
7.	iodine vapour		

BINARY COMPOUNDS - REGULAR			
Write Formulas		Write Names	
1.	sodium chloride	17.	CaO
2.	calcium fluoride	18.	AgCl
3.	barium bromide	19.	Ca ₃ N ₂
4.	lithium carbide	20.	H ₂ O
5.	silver iodide	21.	SiBr ₄
6.	potassium oxide	22.	Al ₂ S ₃
7.	aluminum bromide	23.	Na ₂ O
8.	calcium nitride	24.	AlF ₃
9.	radium oxide	25.	NaCl
10.	boron fluoride	26.	KBr
11.	hydrogen sulfide	27.	BaS
12.	rubidium hydride	28.	AlN
13.	cesium oxide	29.	BA _s
14.	magnesium sulfide	30.	HBr (l)
15.	calcium carbide	31.	ZnCl ₂
16.	zinc oxide	32.	MgI ₂

Chemical Compounds and Bonding: Multi-valent Compounds Nomenclature Review

BINARY COMPOUNDS - "ous - ic" method			
Write Formulas		Write Names Using Stock System	
1.	phosphorous iodide	26.	CuS
2.	phosphoric sulfide	27.	Cu ₂ S
3.	cupric oxide	28.	HgBr
4.	cuprous chloride	29.	Fe ₂ O ₃
5.	mercuric oxide	30.	FeO
6.	mercurous fluoride	31.	SnF ₂
7.	plumbous carbonate	32.	SnF ₄
8.	plumbic nitride	33.	Mn ₂ O ₃
9.	stannic oxide	34.	MnO
10.	stannous fluoride	35.	PbCl ₂
11.	ferric sulfide	36.	PbCl ₄
12.	ferrous hydride	37.	Fe(CIO ₃) ₃
13.	nickelic oxide	38.	FeSiO ₃
14.	nickelous sulfide	39.	CuCO ₃
15.	cuprous carbide	40.	Cu(MnO ₄) ₂
16.	cupric chromate	41.	CoN
17.	manganous phosphide	42.	PF ₅
18.	manganic chloride	43.	PF ₃
19.	auric oxalate	44.	Hg(SCN) ₂
20.	cuprous sulfate	45.	Hg ₂ CrO ₄
21.	arsenous oxide	46.	NiP
22.	stannous phosphate	47.	NiS
23.	arsenic nitride	48.	FeS
24.	cobaltous sulfide	49.	PbC
25.	bismuthic borate	50.	Hg ₂ O

**Chemical Compounds and Bonding:
Multi-valent Compounds Nomenclature Review**

BINARY COMPOUNDS - Roman numeral method			
Write Formulas		Write Names	
1.	platinum (II) permanganate	26.	CuClO_3
2.	phosphorus (IV) silicate	27.	Cu_2O
3.	antimony (V) chloride	28.	HgCN
4.	antimony (III) hydroxide	29.	$\text{Fe}_2(\text{CO}_3)_3$
5.	mercury (II) fluoride	30.	FeCr_2O_7
6.	mercury (I) arsenide	31.	SnBr_2
7.	lead (II) nitrate	32.	SnF_4
8.	lead (IV) oxide	33.	MnSO_4
9.	tin (II) fluoride	34.	MnF_2
10.	tin (IV) sulfide	35.	PbBO_3
11.	iron (III) chromate	36.	PbCl_4
12.	iron (II) oxide	37.	Sb_2O_5
13.	nickel (III) sulfide	38.	SbAs
14.	nickel (II) carbide	39.	AsF_5
15.	copper (I) oxide	40.	FeSiO_3
16.	copper (II) phosphide	41.	CuNO_3
17.	manganese (II) chloride	42.	AuOH
18.	manganese (IV) sulfate	43.	PtCO_3
19.	cobalt (II) cyanide	44.	$\text{Au}(\text{C}_2\text{H}_3\text{O}_2)_3$
20.	cobalt (III) oxalate	45.	FeO
21.	arsenic (III) nitride	46.	NiP
22.	gold (III) nitrate	47.	NiO
23.	arsenic (V) sulfide	48.	FeS
24.	cobalt (II) oxide	49.	PbC
25.	gold (I) acetate	50.	Hg_2S

Chemical Compounds and Bonding: Binary Compounds Nomenclature Review

BINARY COMPOUNDS - prefix method			
Write Formulas		Write Names	
1.	carbon dioxide	26.	H ₂ O
2.	carbon monoxide	27.	SiO ₂
3.	sulfur dioxide	28.	SO ₂
4.	sulfur trioxide	29.	NO ₂
5.	carbon tetrachloride	30.	CO
6.	nitrogen dioxide	31.	CCl ₄
7.	diphosphorus pentoxide	32.	P ₂ O ₃
8.	nitrogen monoxide	33.	As ₂ O ₃
9.	silicon dioxide	34.	Cl ₂ O ₇
10.	dinitrogen tetroxide	35.	P ₂ O ₅
11.	sulfur trioxide	36.	CBr ₄
12.	phosphorus pentabromide	37.	SF ₆
13.	dinitrogen trioxide	38.	SeO ₂
14.	carbon tetrachloride	39.	SiBr ₂
15.	tetraphosphorus hexoxide	40.	As ₄ O ₆
16.	selenium disulfide	41.	As ₂ Br ₅
17.	iodine heptafluoride	42.	N ₂ H ₅
18.	dinitrogen pentoxide	43.	P ₄ S ₁₀
19.	diboron nonoxide	44.	S ₂ O ₇
20.	selenium dicarbide	45.	Br ₃ O ₈
21.	phosphorus trifluoride	46.	As ₃ P ₆
22.	dichlorine octoxide	47.	B ₂ S ₅
23.	phosphorus pentafluoride	48.	CS ₂
24.	selenium tetrafluoride	49.	B ₄ H ₉
25.	Dinitrogen monoxide	50.	PBr ₅

