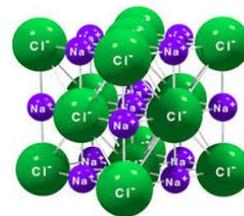


Name: _____ **ANSWER KEY** _____



SNC 2DI

Nomenclature: Binary Ionic Compounds

#	Formula	Description (for interest only)	Name
1	CaCl ₂	used on roads to keep down dust	calcium chloride
2	KI	dietary supplement for iodine	potassium iodide
3	MgO	in fire bricks	magnesium oxide
4	AlCl₃	used to de-hair hides	aluminum chloride
5	Na ₂ S	aluminum ore (bauxite)	sodium sulfide
6	Al ₂ O ₃	used in antiperspirants	aluminum oxide
7	Li₃N	black powder	lithium nitride
8	CaO	quicklime	calcium oxide
9	BaCl₂	heart stimulant	barium chloride
10	NaCl	table salt	sodium chloride
11	ZnO	UV blocker	zinc oxide
12	BaF ₂	used in embalming	barium fluoride
13	MgH₂	ignites on contact with air	magnesium hydride
14	MgCl ₂	11% of salt in sea water	magnesium chloride
15	ZnCl₂	in soldering paste	zinc chloride
16	Ag ₂ S	tarnish on silverware	silver sulfide
17	KCl	potash fertilizer	potassium chloride
18	CaF ₂	used to fluorinate drinking water	calcium fluoride
19	ZnS	zinc ore	zinc sulphide
20	GaF₃	white solid	Gallium fluoride

SNC 2DI Naming and Writing Formulas for Multivalent metals

25	2+
Mn	3+
Manganese	4+
54.9	

Complete the table below by either writing in the correct formula or the correct chemical name.

#	Formula	Chemical Name
1	NiBr₃	nickel (III) bromide
2	MnS₂	manganese (IV) sulfide
3	CrS	chromium (II) sulfide
4	FeP	iron (III) phosphide
5	As₂O₅	arsenic (V) oxide
6	SnF₃	antimony (III) fluoride
7	Cu₃N	copper (I) nitride
8	CoI₂	cobalt (II) iodide
9	SnS₂	tin (IV) sulfide
10	AuBr₃	gold (III) bromide
11	CuCl	copper (I) chloride
12	Fe ₃ N ₂	iron (II) nitride
13	PbO	lead (II) oxide
14	HgF ₂	mercury (II) fluoride
15	Bi ₂ O ₅	bismuth (V) oxide
16	FeO	iron (II) oxide
17	VI ₃	vanadium (III) iodide
18	PtS ₂	platinum (IV) sulfide
19	PtCl ₄	platinum (IV) chloride
20	MnCl ₃	manganese (III) chloride

BONUS: If someone was to say they did a reaction with nickel sulfide, how is this incorrect? Write the chemical formulas and correct chemical names for the possible solids they are talking about below. **-Must indicate the charge on nickel, since nickel has the charges +2 and/or +3**

NiS – nickel (II) sulfide and **Ni₂S₃ – nickel (III) sulfide**