

Create a Formula for the following elements

Metal	Non-metal	Compound	Metal	Non-metal	Compound
Na	Br		Al	Cl	
Mg	Br		B	O	
Al	Br		Ca	N	
Li	S		K	O	
Ca	S		Na	P	
B	S		Al	O	
K	N		Mg	S	
Be	N		B	P	
Al	N		Na	Cl	
Li	O		Ca	F	

Name the following compounds

Metal	Non-metal	Compound	Metal	Non-metal	Compound
Na	Br		Al	Cl	
Mg	Br		B	O	
Al	Br		Ca	N	
Li	S		K	O	
Ca	S		Na	P	
B	S		Al	O	
K	N		Mg	S	
Be	N		B	P	
Al	N		Na	Cl	
Li	O		Ca	F	

Chemical Name	Metal Ion	Non-metal Ion	Chemical Formula
sodium fluoride	Na ⁺¹	F ⁻¹	NaF
boron iodide			
calcium phosphide			
magnesium oxide			
potassium chloride			
beryllium sulfide			
barium nitride			
aluminum sulfide			
lithium phosphide			
potassium sulfide			
boron oxide			
calcium fluoride			

Compound Name	Metal Ion	Non-metal Ion	Formula
gold (I) chloride			
nickel (III) sulfide			
cobalt (II) oxide			
iron (III) phosphide			
mercury (IV) fluoride			
nickel (II) nitride			
gold (III) sulfide			
copper (I) oxide			

Compound Name	Positive Ion	Negative Ion	Formula
sodium carbonate	Na ⁺	CO ₃ ²⁻	Na ₂ CO ₃
calcium nitrate			
barium sulfate			
aluminum hydrogen carbonate			
potassium phosphate			
beryllium hydroxide			
lithium hydrogen sulfate			
ammonium chloride			
sodium phosphate			
potassium sulfate			
ammonium carbonate			

FORMULA	NAME OF COMPOUND
Mg(OH) ₂	
CaCO ₃	
NH ₄ Cl	
LiHCO ₃	
Al(NO ₃) ₃	
Be ₃ (PO ₄) ₂	
KHSO ₄	
(NH ₄) ₃ N	

Chemical Name	Formula	Chemical Name	Formula
nitrogen monoxide	NO		SCl ₂
silicon dioxide			SO ₂
sulfur trioxide			NO
carbon tetrachloride			SiS ₂
diarsenic trioxide			PO ₃
phosphorus pentabromide			PF ₃
nitrogen dioxide			CBr ₄
sulfur hexafluoride			NCl ₃
selenium dioxide			SiO ₃
dinitrogen tetroxide			PCl ₃
sulfur dioxide			CS ₂