

## FORMULAS FOR IONIC COMPOUNDS

1. Write the chemical formula for the ionic compounds made from the following elements.

Elements	metal ion	non-metal ion	Chemical Formula	Name
potassium and iodine	$K^{+1}$	$I^{-1}$	KI	Potassium Iodide
barium and chlorine	$Ba^{2+}$	$Cl^{-1}$	$BaCl_2$	Barium Chloride
sodium and oxygen	$Na^{+1}$	$O^{2-}$	$Na_2O$	sodium Oxide
aluminum and nitrogen	$Al^{3+}$	$N^{3-}$	AlN	Aluminum Nitride
lithium and sulfur	$Li^{+1}$	$S^{2-}$	$Li_2S$	Lithium Sulfide
magnesium and oxygen	$Mg^{+2}$	$O^{2-}$	MgO	Magnesium Oxide
calcium and chlorine	$Ca^{2+}$	$Cl^{-1}$	$CaCl_2$	calcium chloride
boron and chlorine	$B^{3+}$	$Cl^{-1}$	$BCl_3$	boron chloride
beryllium and sulfur	$Be^{2+}$	$S^{2-}$	BeS	beryllium sulfide

2. Complete the chart below and write the ionic formulas to complete it. A few have been done for you.

	F	Cl	$O^{2-}$	$S^{2-}$	$N^{3-}$	$P^{3-}$
$Li^{+}$	LiF	LiCl	$Li_2O$	$Li_2S$	$Li_3N$	$Li_3P$
$Na^{+}$	NaF	NaCl	Na <sub>2</sub> O	$Na_2S$	$Na_3N$	$Na_3P$
$K^{+}$	KF	KCl	$K_2O$	$K_2S$	$K_3N$	$K_3P$
$Be^{2+}$	$BeF_2$	$BeCl_2$	BeO	BeS	$Be_3S_2$	$Be_3P_2$
$Mg^{2+}$	$MgF_2$	$MgCl_2$	MgO	MgS	$Mg_3N_2$	$Mg_3P_2$
$Ca^{2+}$	$CaF_2$	$CaCl_2$	CaO	CaS	$Ca_3N_2$	$Ca_3P_2$
$Al^{3+}$	$AlF_3$	$AlCl_3$	$Al_2O_3$	$Al_2S_3$	AlN	AlP
$Ga^{3+}$	$GaF_3$	$GaCl_3$	$Ga_2O_3$	$Ga_2S_3$	$GaN$	GaP
$B^{3+}$	$BF_3$	$BCl_3$	$B_2O_3$	$B_2S_3$	BN	BP

# Ionic Compound Reviewing Vocabulary Answers

**David Kirk**



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web dec 7 2017 the review shows that the hyperspectral remote sensing technology has found application to the study and exploration of a number of ore deposits including kimberlites host rocks of diamonds carbonatites host rock of rare earth elements deposits porphyry deposits epithermal gold and silver deposits skarn deposits

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web mar 7 2023 this paper aims to give an oversight of what is being done by researchers in gis and remote sensing field to explore minerals the main objective of this review is to explore how gis and remote sensing have been beneficial in identifying mineral deposits for easier and cost effective mining