

Name : ----- Date : -----

Ionic Compound Formula Writing Worksheet

Write the formula for the correct compound based on the information in the table. (Identify any covalent compounds.)

	OH^-	Cl^-	NO_3^-	O^{2-}	SO_4^{3-}	PO_4^{3-}
H^+						
Na^+						
K^+						
Ca^{2+}						
Mg^{2+}						
Zn^{2+}						
Al^{3+}						
Co^{3+}						
Fe^{2+}						
Fe^{3+}						
NH_4^+						

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Answers

	OH^-	Cl^-	NO_3^-	O^{2-}	SO_4^{3-}	PO_4^{3-}
H^+	H_2O	HCl	HNO_3	H_2O	H_2SO_4	H_3PO_4
Na^+	NaOH	NaCl	NaNO_3	NaNO_3	Na_2SO_4	Na_3PO_4
K^+	KOH	KCl	KNO_3	K_2O	K_2SO_4	K_3PO_4
Ca^{2+}	Ca(OH)_2	CaCl_2	$\text{Ca(NO}_3)_2$	CaO	CaSO_4	$\text{Ca}_3(\text{PO}_4)_2$
Mg^{2+}	Mg(OH)_2	MgCl_2	$\text{Mg(NO}_3)_2$	MgO	MgSO_4	$\text{Mg}_3(\text{PO}_4)_2$
Zn^{2+}	Zn(OH)_2	ZnCl_2	$\text{Zn(NO}_3)_2$	ZnO	ZnSO_4	$\text{Zn}_3(\text{PO}_4)_2$
Al^{3+}	Al(OH)_3	AlCl_3	$\text{Al(NO}_3)_3$	Al_2O_3	$\text{Al}_2(\text{SO}_4)_3$	AlPO_4
Co^{3+}	Co(OH)_3	CoCl_3	$\text{Co(NO}_3)_3$	Co_2O_3	$\text{Co}_2(\text{SO}_4)_3$	CoPO_4
Fe^{2+}	Fe(OH)_2	FeCl_2	$\text{Fe(NO}_3)_2$	FeO	FeSO_4	$\text{Fe}_3(\text{PO}_4)_2$
Fe^{3+}	Fe(OH)_3	FeCl_3	$\text{Fe(NO}_3)_3$	Fe_2O_3	$\text{Fe}_2(\text{SO}_4)_3$	FePO_4
NH_4^+	NH_4OH	NH_4Cl	NH_4NO_3	$(\text{NH}_4)_2\text{O}$	$(\text{NH}_4)_2\text{SO}_4$	$(\text{NH}_4)_3\text{PO}_4$

All the compounds formed by hydrogen are polar covalent molecules, as the charge around the atoms is not evenly distributed.