

**WRITING FORMULAS
(CRISS-CROSS METHOD)**

Name: _____

Write the formulae of the compounds composed from the listed ions.

	Cl^-	CO_3^{2-}	OH^-	SO_4^{2-}	PO_4^{3-}	NO_2^-
Na^+	NaCl	Na_2CO_3	NaOH	Na_2SO_4	Na_3PO_4	NaNO_2
K^+	KCl	K_2CO_3	KOH	K_2SO_4	K_3PO_4	KNO_2
Ca^{2+}	CaCl_2	CaCO_3	Ca(OH)_2	CaSO_4	$\text{Ca}_3(\text{PO}_4)_2$	$\text{Ca(NO}_2)_2$
Mg^{2+}	MgCl_2	MgCO_3	Mg(OH)_2	MgSO_4	$\text{Mg}_3(\text{PO}_4)_2$	$\text{Mg(NO}_2)_2$
Zn^{2+}	ZnCl_2	ZnCO_3	Zn(OH)_2	ZnSO_4	$\text{Zn}_3(\text{PO}_4)_2$	$\text{Zn(NO}_2)_2$
Fe^{2+}	FeCl_2	FeCO_3	Fe(OH)_2	FeSO_4	$\text{Fe}_3(\text{PO}_4)_2$	$\text{Fe(NO}_2)_2$
Al^{3+}	AlCl_3	$\text{Al}_2(\text{CO}_3)_3$	Al(OH)_3	$\text{Al}_2(\text{SO}_4)_3$	AlPO_4	$\text{Al(NO}_2)_3$
Cu^{2+}	CuCl_2	CuCO_3	Cu(OH)_2	CuSO_4	$\text{Cu}_3(\text{PO}_4)_2$	$\text{Cu(NO}_2)_2$
Pb^{2+}	PbCl_2	PbCO_3	Pb(OH)_2	PbSO_4	$\text{Pb}_3(\text{PO}_4)_2$	$\text{Pb(NO}_2)_2$
H^+	HCl	H_2CO_3	HNO_3	H_2SO_4	H_3PO_4	HNO_2