

## Formula Writing Exercise

Provide the chemical formula for the following compounds.

Name	Ionic or Molecular?	Formula
Tin(IV) oxide		
Magnesium hydroxide		
Triphosphorus pentaiodide		
Calcium sulfite		
Aluminium bromide		
Nitrogen trioxide		
Iron(III) oxide		
Cobalt(II) sulfide		
Lithium sulfate		
Iodine chloride		
Tin(IV) iodide		
Disulfur dichloride		
Silicon dioxide		
Ammonium chloride		
Sodium hydrogen carbonate		
Lead(IV) bromide		
Dinitrogen tetrafluoride		
Copper(II) carbonate		
Magnesium nitrate		
Calcium oxide		
Potassium phosphate		
Copper(I) hydroxide		
Mercury(II) oxide		
Carbon monoxide		
Sodium permanganate		
Barium nitrite		

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Provide the chemical formula for the following compounds.

Name	Ionic or Molecular?	Formula
Tin(IV) oxide	Ionic	$\text{SnO}_2$
Magnesium hydroxide	Ionic	$\text{Mg}(\text{OH})_2$
Triphosphorus pentaiodide	Molecular	$\text{P}_3\text{I}_5$
Calcium sulfite	Ionic	$\text{CaSO}_3$
Aluminium bromide	Ionic	$\text{AlBr}_3$
Nitrogen trioxide	Molecular	$\text{NO}_3$
Iron(III) oxide	Ionic	$\text{Fe}_2\text{O}_3$
Cobalt(II) sulfide	Ionic	$\text{CoS}$
Lithium sulfate	Ionic	$\text{Li}_2\text{SO}_4$
Iodine chloride	Molecular	$\text{ICl}$
Tin(IV) iodide	Ionic	$\text{SnI}_4$
Disulfur dichloride	Molecular	$\text{S}_2\text{Cl}_2$
Silicon dioxide	Molecular	$\text{SiO}_2$
Ammonium chloride	Ionic	$\text{NH}_4\text{Cl}$
Sodium hydrogen carbonate	Ionic	$\text{NaHCO}_3$
Lead(IV) bromide	Ionic	$\text{PbBr}_4$
Dinitrogen tetrafluoride	Molecular	$\text{N}_2\text{F}_4$
Copper(II) carbonate	Ionic	$\text{CuCO}_3$
Magnesium nitrate	Ionic	$\text{Mg}(\text{NO}_3)_2$
Calcium oxide	Ionic	$\text{CaO}$
Potassium phosphate	Ionic	$\text{K}_3\text{PO}_4$
Copper(I) hydroxide	Ionic	$\text{CuOH}$
Mercury(II) oxide	Ionic	$\text{HgO}$
Carbon monoxide	Molecular	$\text{CO}$
Sodium permanganate	Ionic	$\text{NaMnO}_4$
Barium nitrite	Ionic	$\text{Ba}(\text{NO}_2)_2$