

Name _____
 Date _____ Period _____

Chemical Formulas: Practice Problems

Identify the type of substances, then provide the name or formula of the substance depending on which is NOT given. For example, if the name is given, write the formula. If the formula is given, write the name.

Name or Formula Given	Ionic Cmpd	Molecule	Polyatomic Ion	Formula or Name
Potassium fluoride				
Sulfate				
Carbon disulfide				
Hydrogen chromate				
Diphosphorus pentoxide				
Sodium dihydrogen phosphate				
Hydrogen phosphide				
Sulfur trioxide				
Bisulfide				
Dihydrogen monoxide				
Chromate				
Cadmium(II) acetate				
Gold (III) sulfate				
Dinitrogen monoxide				
Ammonium fluoride				
Sodium bisulfate				
Tin (IV) iodide				
Strontium bicarbonate				
Osmium (IV) chloride				
Ammonium hydroxide				

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Name or Formula Given	Ionic Cmpd	Molecule	Polyatomic Ion	Formula or Name
Potassium fluoride	✓			KF
Sulfate			✓	SO_4^{2-}
Carbon disulfide		✓		CS_2
Hydrogen chromate	✓		✓	HCrO_4^-
Diphosphorus pentoxide		✓		P_2O_5
Sodium dihydrogen phosphate	✓		✓	NaH_2PO_4
Hydrogen phosphide	✓			H_3P
Sulfur trioxide		✓		SO_3
Bisulfide			✓	HS^-
Dihydrogen monoxide		✓		H_2O
Chromate			✓	CrO_4^{2-}
Cadmium(II) acetate	✓		✓	$\text{Cd}(\text{CH}_3\text{COO})_2$
Gold (III) sulfate	✓		✓	$\text{Au}_2(\text{SO}_4)_3$
Dinitrogen monoxide		✓		N_2O
Ammonium fluoride	✓			NH_4F
Sodium bisulfate	✓		✓	NaHSO_4
Tin (IV) iodide	✓			SnI_4
Strontium bicarbonate	✓		✓	$\text{Sr}(\text{HCO}_3)_2$
Osmium (IV) chloride	✓			OsCl_4
Ammonium hydroxide	✓		✓	NH_4OH