Polyatomic Ions Worksheet

Complete the table with the appropriate information.

Name	Ions	Formula
Sodium Sulfate		
Lithium Phosphate		
	Al^{3+} $(C_2H_3O_2)^-$	$Al(C_2H_3O_2)_3$
	Sn^{2+} NO_3^-	
Potassium Carbonate		
Iron(III) Sulfate		$Fe_2(SO_4)_3$
Barium Hydroxide	Ba^{2+} OH^-	
Calcium Hydrogen Sulfate	Ca^{2+} HSO_4^-	
Aluminum Bicarbonate		
	Mg^{2+} HCO_3^-	
Calcium Nitrite		
		$(NH_4)_2S$
Tin (IV) Carbonate		$Sn(CO_3)_2$
		$Fe_2(SO_4)_3$
Ammonium Phosphate		
Aluminum Hydroxide		
	Ba^{2+} NO_2^-	$Ba(NO_2)_2$
Potassium Nitrate		
Iron (III) Hydroxide		

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Answers

Name	Ions	Formula
Sodium Sulfate	$Na^+ SO_4^{2-}$	Na_2SO_4
Lithium Phosphate	$Li^+ PO_4^{3-}$	Li_3PO_4
Aluminum Acetate	$Al^{3+} (C_2H_3O_2)^-$	$Al(C_2H_3O_2)_3$
Tin(II) Nitrate	$Sn^{2+} NO_3^-$	$Sn(NO_3)_2$
Potassium Carbonate	$K^+ CO_3^{2-}$	K_2CO_3
Iron(III) Sulfate	$Fe^{3+} SO_4^{2-}$	$Fe_2(SO_4)_3$
Barium Hydroxide	$Ba^{2+} OH^-$	$Ba(OH)_2$
Calcium Hydrogen Sulfate	$Ca^{2+} HSO_4^-$	$Ca(HSO_4)_2$
Aluminum Bicarbonate	$Al^{3+} HCO_3^-$	$Al(HCO_3)_3$
Magnesium Bicarbonate	$Mg^{2+} HCO_3^-$	$Mg(HCO_3)_2$
Calcium Nitrite	$Ca^{2+} NO_2^-$	$Ca(NO_2)_2$
Ammonium Sulfide	$NH_4^+ S_2^-$	$(NH_4)_2S$
Tin (IV) Carbonate	$Sn^{4+} CO_3^{2-}$	$Sn(CO_3)_2$
Iron (III) Sulfate	$Fe^{3+} SO_4^{2-}$	$Fe_2(SO_4)_3$
Ammonium Phosphate	$NH_4^+ PO_4^{3-}$	$(NH_4)_3PO_4$
Aluminum Hydroxide	$Al^{3+} OH^-$	$Al(OH)_3$
Barium Nitrite	$Ba^{2+} NO_2^-$	$Ba(NO_2)_2$
Potassium Nitrate	$K^+ NO_3^-$	KNO_3
Iron (III) Hydroxide	$Fe^{3+} OH^-$	$Fe(OH)_3$