Predicting and Naming Polyatomic Ionic Compounds Worksheet

Name			
name			

You are required to know numbers of atoms and charge on the following polyatomic ions:

Name of the ion	Chemical structure	Name of the ion	Chemical structure
Phosphate ion	PO ₄ ³⁻	Sulfate ion	SO ₄ ²⁻
Hydrogen phosphate ion	HPO ₄ ²⁻	Hydrogen sulfate ion	HSO ₄
Dihydrogen phosphate ion	$\mathrm{H_2PO_4}^-$	Nitrate ion	NO_3^-
Carbonate ion	CO_3^{2-}	Acetate ion	$\mathrm{C_2H_3O_2}^-$
Hydrogen carbonate ion	HCO ₃ ⁻	Hydroxide ion	OH^-
		Ammonium ion	$\mathrm{NH_4}^+$

Given the following $\underline{\text{polyatomic}}$ ionic compounds, fill in the formula of the compound from its name.

Name of Compound	Element or Polyatomic Cation	Element or Polyatomic Anion	Compound Formula
Lithium Nitrate			
Sodium Sulfate			
Potassium Phosphate			
Lithium Carbonate			
Sodium Acetate			
Potassium Hydroxide			