

## Predicting Salt Formation

Complete the following table by predicting the formula for the salt formed from each acid-base combination.

	NaOH	Ca(OH) <sub>2</sub>	NH <sub>4</sub> OH
HCl	NaCl	CaCl <sub>2</sub>	NH <sub>4</sub> Cl
HNO <sub>3</sub>	NaNO <sub>3</sub>	Ca(NO <sub>3</sub> ) <sub>2</sub>	NH <sub>4</sub> NO <sub>3</sub>
H <sub>2</sub> SO <sub>4</sub>	Na <sub>2</sub> SO <sub>4</sub>	CaSO <sub>4</sub>	(NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub>
H <sub>3</sub> PO <sub>4</sub>	Na <sub>3</sub> PO <sub>4</sub>	Ca <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub>	(NH <sub>4</sub> ) <sub>3</sub> PO <sub>4</sub>
HC <sub>2</sub> H <sub>3</sub> O <sub>2</sub>	NaC <sub>2</sub> H <sub>3</sub> O <sub>2</sub>	Ca(C <sub>2</sub> H <sub>3</sub> O <sub>2</sub> ) <sub>2</sub>	NH <sub>4</sub> C <sub>2</sub> H <sub>3</sub> O <sub>2</sub>
H <sub>2</sub> CO <sub>3</sub>	Na <sub>2</sub> CO <sub>3</sub>	CaCO <sub>3</sub>	(NH <sub>4</sub> ) <sub>2</sub> CO <sub>3</sub>

In the table below, list the correct name for each salt formed.

	NaOH	Ca(OH) <sub>2</sub>	NH <sub>4</sub> OH
HCl	sodium chloride	calcium chloride	ammonium chloride
HNO <sub>3</sub>	sodium nitrate	calcium nitrate	ammonium nitrate
H <sub>2</sub> SO <sub>4</sub>	sodium sulfate	calcium sulfate	ammonium sulfate
H <sub>3</sub> PO <sub>4</sub>	sodium phosphate	calcium phosphate	ammonium phosphate
HC <sub>2</sub> H <sub>3</sub> O <sub>2</sub>	sodium acetate	calcium acetate	ammonium acetate
H <sub>2</sub> CO <sub>3</sub>	sodium carbonate	calcium carbonate	ammonium carbonate

Predict the products of the following neutralization reactions and balance each equation.

