

Why "neutralization?

*The products of the reaction (water and a "salt") do not have any of the characteristic properties of acids and bases. These properties can be said to be "neutralized".

$$\begin{array}{ccc} H((aq) + NH_{4}OH(aq) \longrightarrow H_{2}O(l) + NH_{4}C(aq) \\ H^{+}Cl^{-} & NH_{4}^{+}OH^{-} \\ L & L \end{array}$$

DOUBLE REPLACEMENTS THAT FORM GASES



Example of a reactions that forms carbonic acid, then gas: The "baking soda volcano"!



This is the overall process. We show carbon dioxide and water as products, since we want to show the reaction as it's actually observed -with carbonic acid broken down to water and (gaseous) carbon dioxide.