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## What is neutralization?

## Lesson Review

Complete the following.

1. When hydrochloric acid and sodium hydroxide are mixed together, they form $\qquad$
$\qquad$ and water.
2. A neutralization reaction always forms water and a $\qquad$ .
3. The reaction between an acid and a base forms a $\qquad$ substance.
4. When blue litmus paper is put in a solution of table salt and water the color of the paper
$\qquad$ .
5. A substance produced when an acid reacts with a base is a $\qquad$ .
6. When acids and bases are mixed, a $\qquad$ reaction occurs.
7. When red litmus paper is put in a solution of table salt and water, the color of the paper $\qquad$ .
8. Salt water is a $\qquad$ substance.
9. A salt includes the $\qquad$ ion from an acid.
10. Sodium chloride is commonly known as $\qquad$ .

## Skill Challenge

Skills: synthesizing, relating
Match each of the following products with the acids and bases that react to form them in a neutralization reaction.

Acids and Bases

1. $\mathrm{HCl}+\mathrm{KOH}$
2. $\mathrm{Mg}(\mathrm{OH})_{2}+2 \mathrm{HCl}$
3. $\mathrm{HNO}_{3}+\mathrm{NH}_{4} \mathrm{OH}$
4. $\mathrm{HCl}+\mathrm{NaOH}$
c. $\mathrm{KCl}+\mathrm{H}_{2} \mathrm{O}$

## Products

a. $\mathrm{MgCl}_{2}+2 \mathrm{H}_{2} \mathrm{O}$
b. $\mathrm{NaCl}+\mathrm{H}_{2} \mathrm{O}$
d. $\mathrm{NH}_{4} \mathrm{NO}_{3}+\mathrm{H}_{2} \mathrm{O}$

