

# Vocabulary



**acid** a substance that tastes sour, conducts electricity, and reacts with many metals

Lemon juice is an acid. It tastes sour, conducts electricity, and reacts with certain metals, such as iron.

**base** a substance that tastes bitter and feels slippery

Soap is a base. It tastes bitter and feels slippery.

**indicator** a substance that changes color with a change in pH

Phenol red is an example of an indicator. Phenol red is yellow in an acid, red in a base, and orange in a neutral solution.

**pH** a measure of the amount of acid in a solution

A low pH means a solution is acidic.

Stomach acid has a pH of about 2.

A high pH means a solution is basic.

Ammonia solution used for cleaning is a base and has a pH of about 11.

**salt** the product of a chemical reaction between an acid and a base

When an acid combines with a base, a salt and water are produced. For example, when hydrochloric acid (stomach acid) and the base sodium hydroxide (lye) react, the products are water and sodium chloride, table salt.