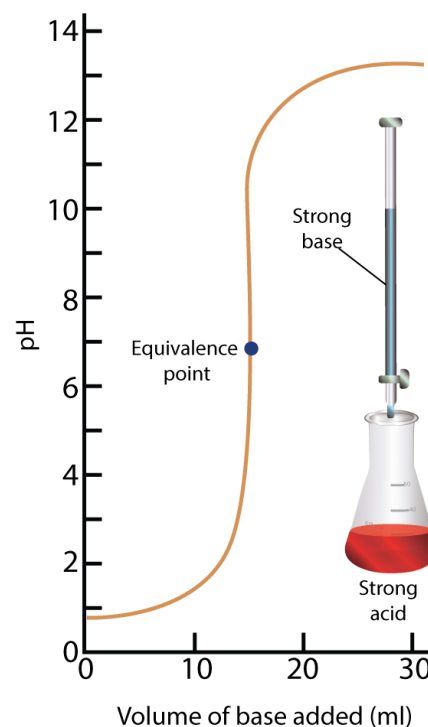
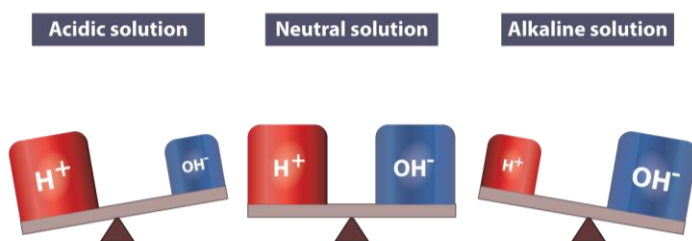


Neutralization Guided Notes – Student Edition

Neutralization is a reaction in which an _____ and a _____ cancel each other out. The products of this reaction are _____ and a _____. The pH of these products, assuming the acid and base are of equal _____ will be 7 because the number of _____ ions and _____ ions are exactly equal. When this occurs, it is called the equivalence point.



Applications of Neutralization in Everyday Life

Neutralization is often used to solve everyday problems.

1. The potent smell of fish and other seafood is due to a group of bases called _____. These bases (and the terrible smell they have) can be removed by using an _____ such as lemon juice or _____ to clean the smelly surface.



2. The stomach contains dilute _____ which is necessary for the digestive enzyme pepsin to break down the food you eat. However, your stomach acid can move upwards into the _____ or become too acidic, when too _____ food is eaten, or too _____, causing indigestion.



Name: _____ Period: _____ Date: _____

Neutralization Guided Notes – Student Edition

To neutralize the stomach acid, people take _____ medicines which contain magnesium _____ or sodium hydrogen _____ to cancel out the effects of the acid and relieve the discomfort. The equation for this reaction is:



OR



3. Preventing tooth decay and cavities is challenging if you eat lots of _____ foods. Bacteria which live in the mouth break down the sugars in these foods and form _____. These acids attack the protective coating called _____ on the outside of the teeth creating small holes called _____.



Toothpaste contains a _____ such as calcium carbonate which can _____ the acids produced by the bacteria in the mouth which _____ the number of cavities a person gets.

4. The acidity or alkalinity of the soil affects how well a _____ will grow and the availability of different _____ in the soil. Farmers use lime (calcium carbonate) to _____ the pH of the soil if it is too _____. For soils which are too _____, sulfur powder is added to the soil which reacts with water to form sulfuric acid and _____ the soil pH.

