## Acids, Bases, and pH

Water molecules can react to form ions.
Ion: an atom with a net electric charge


About 1 molecule in 550 million reacts to forms ions.

The pH scale is used to indicate the concentration of $\mathrm{H} \square \underline{\text { ions in }}$ in a solution.


# Acid: any compound that forms $\mathrm{H} \square$ ions in a solution 

pH4 Tomato Juice, Beer

```Stomach Acid
pH 2 Lemon Juice, Vinegar
pH 3 Orange Juice, Soda, Some Dental Rinses

Battery Acid

Stomach Acid

Lemon Juice, Vinegar
Orange Juice, Soda, Some Dental Rinses

Tomato Juice, Beer

Black Coffee

Saliva, Cow's Milk

Pure Water

Sea Water, pH-Neutralizing Dental Rinses

Baking Soda

Antacids

Antacids, Dental Treatment Rinses

Soapy Water```

