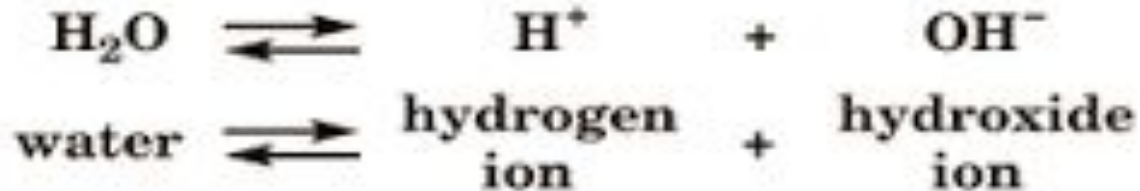
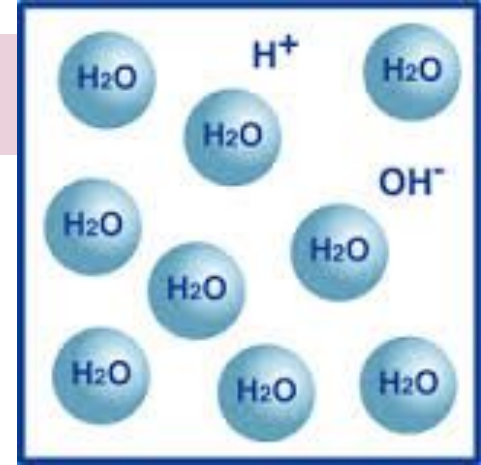


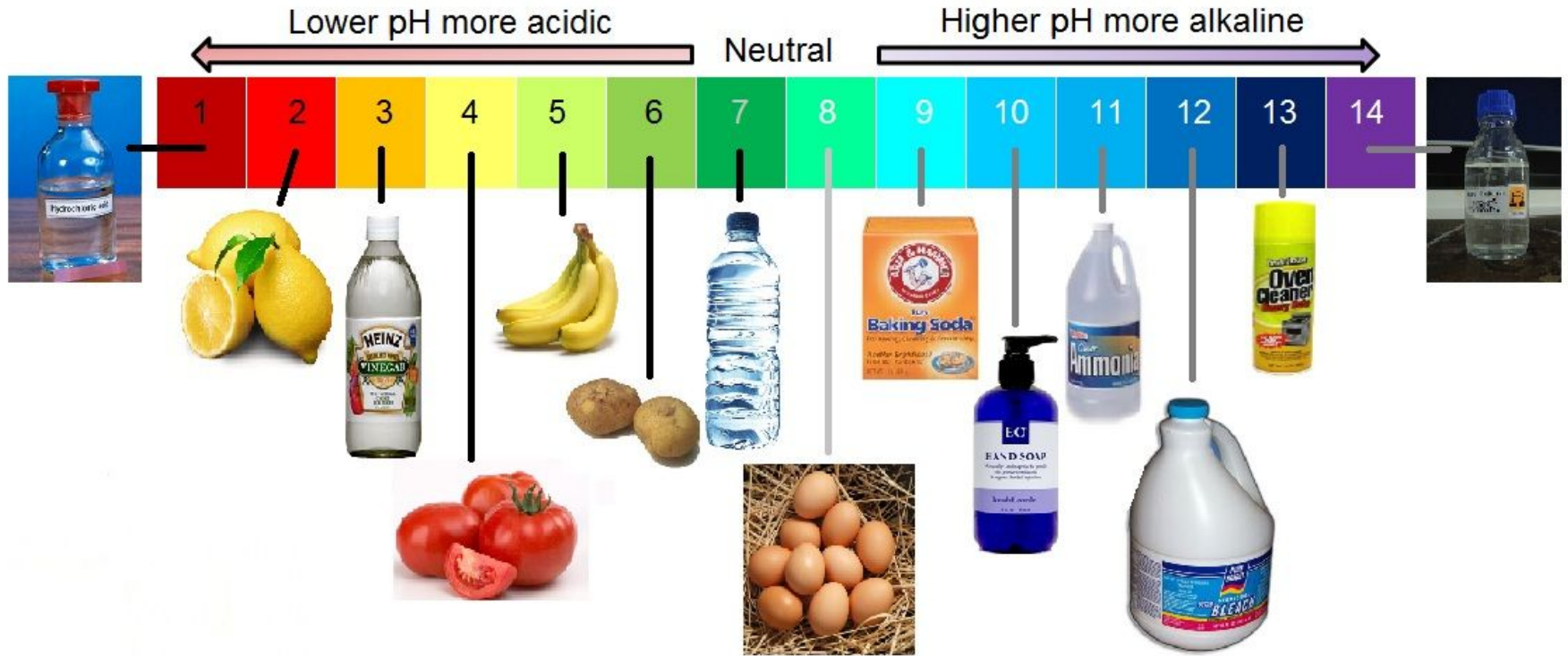
Acids, Bases, and pH

Water molecules can react in a solution to form ions.

Ion: an atom with a net electric charge



The **pH scale** is used to indicate the concentration of H^+ ions in a solution.



Acid: pH 0 (very acidic) \longrightarrow pH 6 (slightly acidic)

- Higher concentrations of H⁺ ions

Neutral: pH of 7



Alkaline (Base):

pH 8 (somewhat basic) \longrightarrow pH 12 (very basic)

- Higher concentrations of -OH ions

pH 0	Battery Acid
pH 1	Stomach Acid
pH 2	Lemon Juice, Vinegar
pH 3	Orange Juice, Soda, Some Dental Rinses
pH 4	Tomato Juice, Beer
pH 5	Black Coffee
pH 6	Saliva, Cow's Milk
pH 7	Pure Water
pH 8	Sea Water, pH-Neutralizing Dental Rinses
pH 9	Baking Soda
pH 10	Antacids
pH 11	Antacids, Dental Treatment Rinses
pH 12	Soapy Water