Acids & Bases

An ACID is a compound that ionizes in water to form a H+ and an anion.

A BASE is a compound that ionizes in water to form an OH- ion and a cation.

An ION is a charged atom or atoms.

An CATION is a ion with a positive charge.
An ANION is a ion with a negative charge.

**Acid Reaction:**

\[ HCl \rightarrow H^+ \ & \ Cl^- \]

Hydrochloric acid \hspace{2cm} Ion \hspace{2cm} Anion

**Base Reaction:**

\[ NaOH \rightarrow OH^- \ & \ Na^+ \]

Sodium Hydroxide \hspace{2cm} Ion \hspace{2cm} Cation