

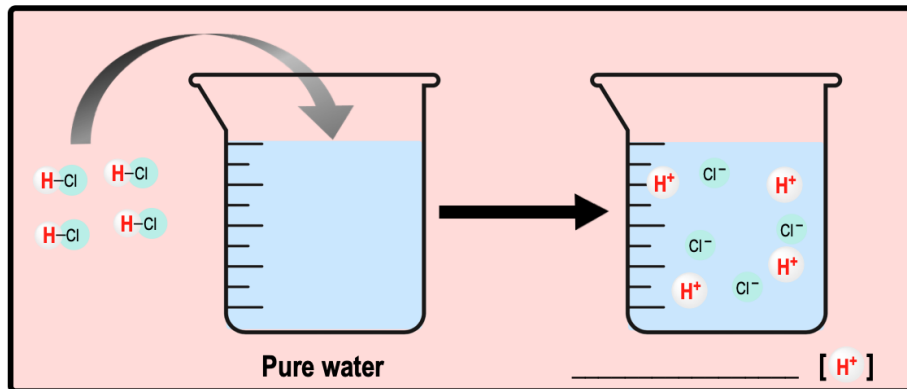
TOPIC: ACIDS AND BASES

- Many biological processes are strongly affected by the _____ of dissolved H^+ in the aqueous solution.
 - *Acids & bases directly affect the $[\text{H}^+]$.*

Acids

- _____: any chemical that _____ a solution's concentration of H^+ ions.

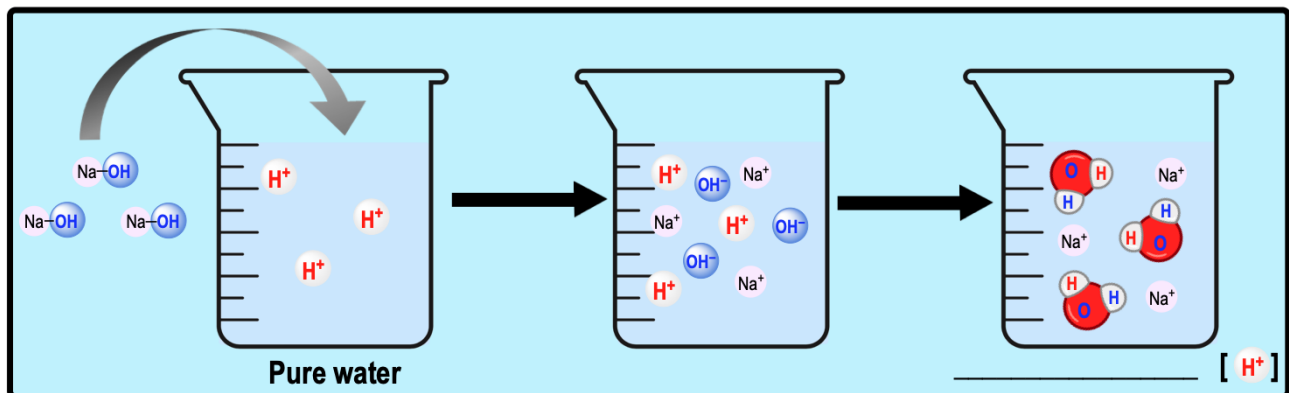
EXAMPLE: Addition of Hydrochloric Acid (HCl) to Water.



Bases

- _____: any chemical that _____ a solution's concentration of H^+ ions.
 - Example of a Base is Sodium hydroxide (_____).

EXAMPLE: Addition of Sodium Hydroxide (NaOH) to water.



PRACTICE: Which of the following reactions is most consistent with that of a base?

- $\text{NH}_4^+ \rightarrow \text{NH}_3 + \text{H}^+$
- $\text{H}_2\text{CO}_3 \rightarrow \text{HCO}_3^- + \text{H}^+$
- $\text{NaOH} \rightarrow \text{Na}^+ + \text{OH}^-$
- $\text{HCl} \rightarrow \text{H}^+ + \text{Cl}^-$