

# Acid & Bases Notes

- Acids and bases are special chemicals that react differently than other substances
- An acid is a substance that makes Hydrogen ( $H^+$ ) ions when put in water
  - Properties of Acids:
    - Makes  $H^+$  ions
    - Taste sour
    - Contain Ions
    - Are corrosive (they can burn through things)
    - React with indicators to change colors
  - Common Acids include:
    - Hydrochloric Acid ( $HCl$ )
    - Nitric Acid ( $HNO_3$ )
    - Sulfuric Acid ( $H_2SO_4$ )
    - Carbonic Acid ( $H_2CO_3$ )
- A base is a substance that makes Hydroxide ( $OH^-$ ) ions when put in water
  - Properties of Bases:
    - Makes  $OH^-$  ions
    - Taste bitter
    - Contain Ions
    - Are slippery to the touch
    - Are corrosive
    - React with indicators to change colors
  - Common Bases include:
    - Sodium Hydroxide ( $NaOH$ )
    - Potassium Hydroxide ( $KOH$ )
    - Calcium Oxide ( $CaO$ )
    - Ammonia ( $NH_3$ )