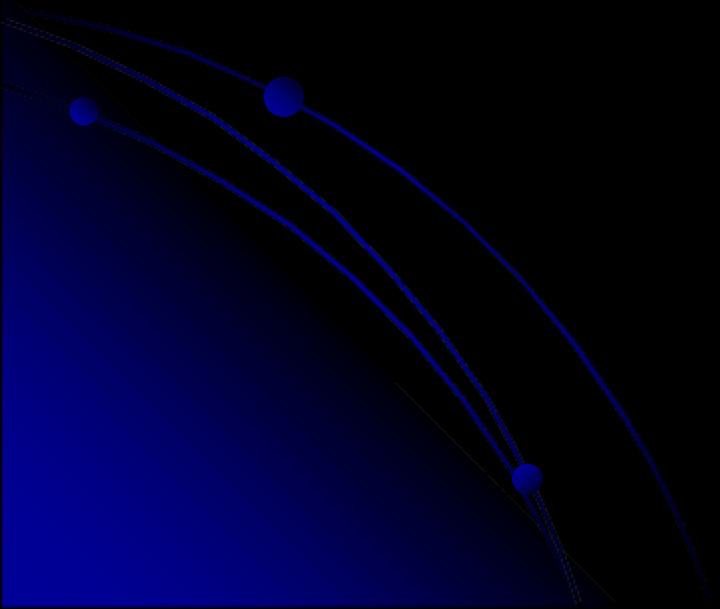
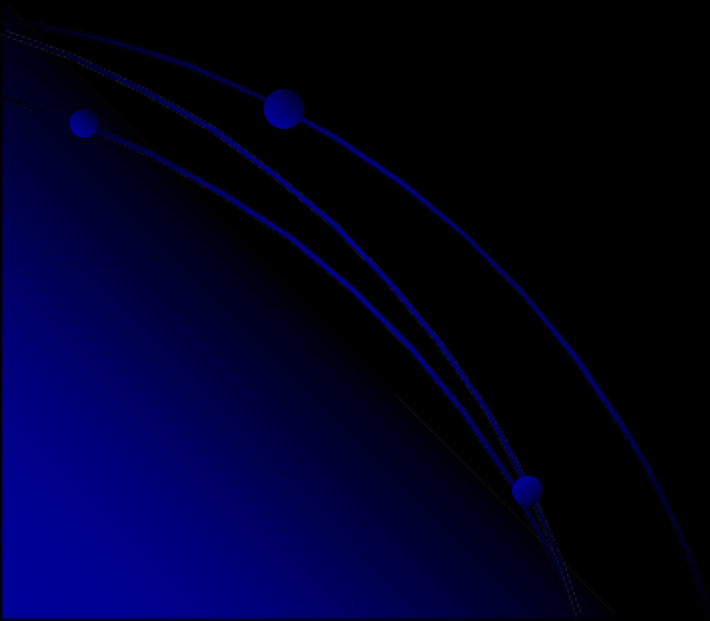


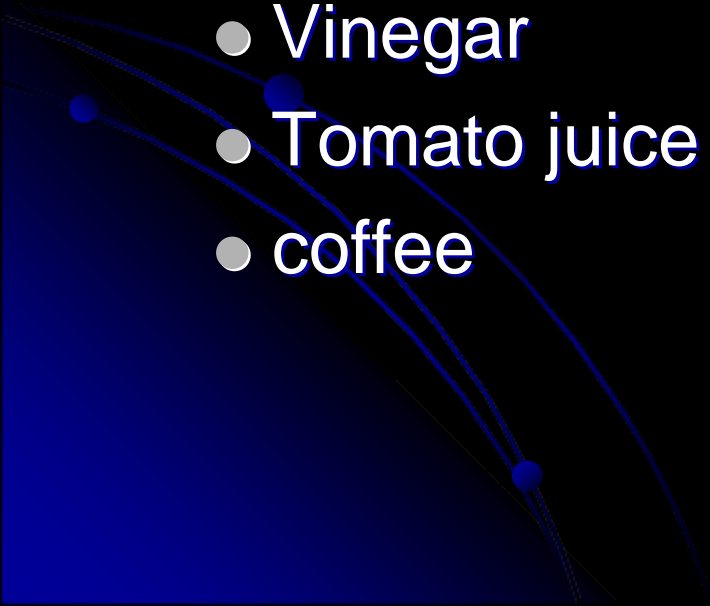
# Acids and Bases



- When water breaks up it releases hydrogen ion ( $H^+$ ) and hydroxide ions ( $OH^-$ ) pure water produces a balanced # of both.

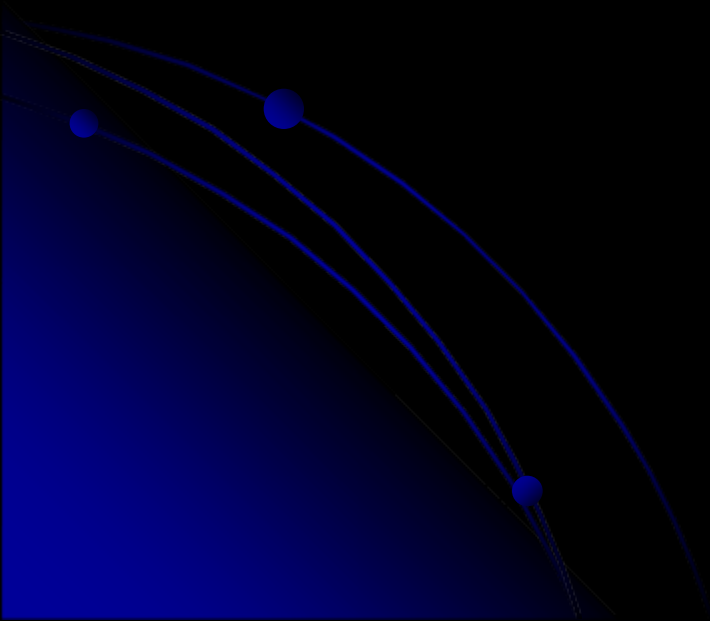


# Acids

- Increase of  $H^+$
  - 1-7 on the pH scale
  - Taste sharp or sour
    - Lemon juice
    - Vinegar
    - Tomato juice
    - coffee
- 

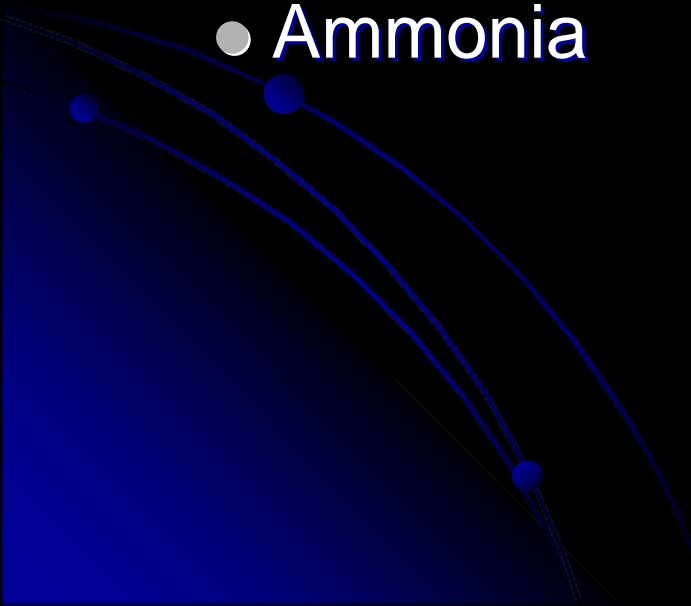
# Neutral

- Pure water
- Equal number of  $H^+$  and  $OH^-$
- 7 on the pH scale

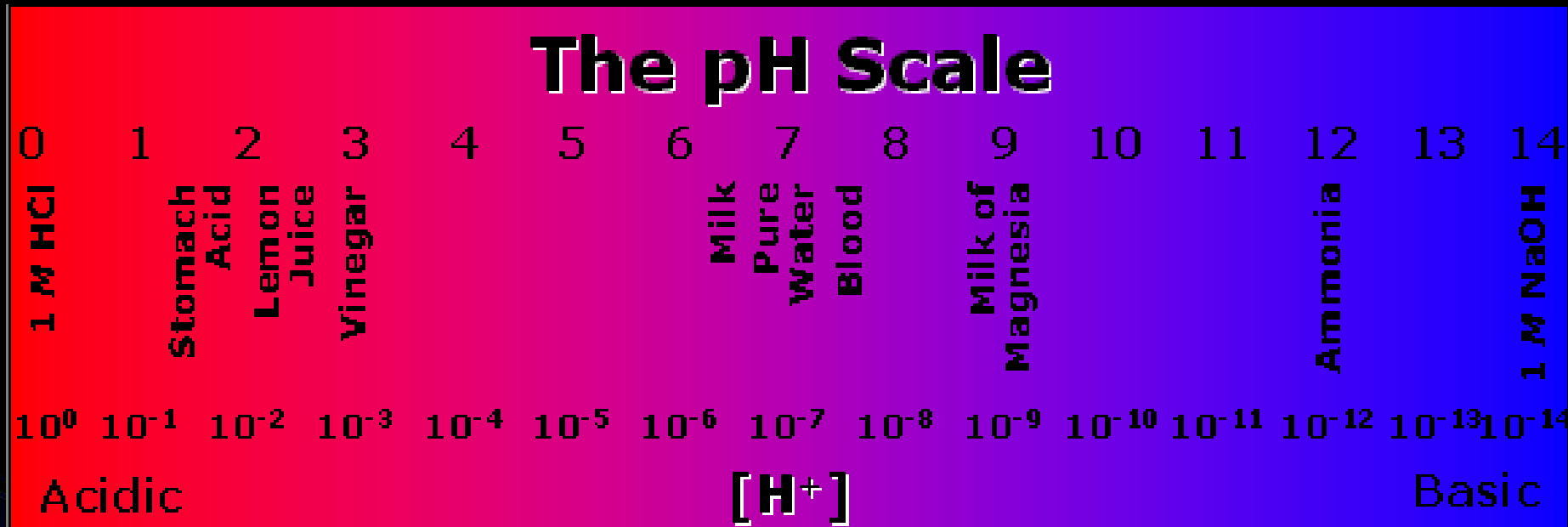


# Bases

- Increase  $\text{OH}^-$
- 7-14 on the pH scale
- Taste bitter and feel slippery in water
  - Milk of magnesia
  - Ammonia



# pH Scale



- Each step on the scale indicates a change of 10x's the concentration
- Buffer in our blood help resist any significant changed in the pH
  - Carbonic acid & bicarbonate ions