

Breathing through Universal Indicator

Concepts

Explanation:

As you exhale through the straw the CO₂ interacts with the water to form carbonic acid.



This acid then dissociates in water to form HCO₃⁻ and H⁺. This H⁺ then changes the pH making the solution more acidic.

Sources:

If you have other explanations, concepts, or ideas for this demonstration please share them by contacting our Chem Demo team (bedell@nku.edu; sieveb1@nku.edu). We will pass them on to the community and credit you with the ideas.