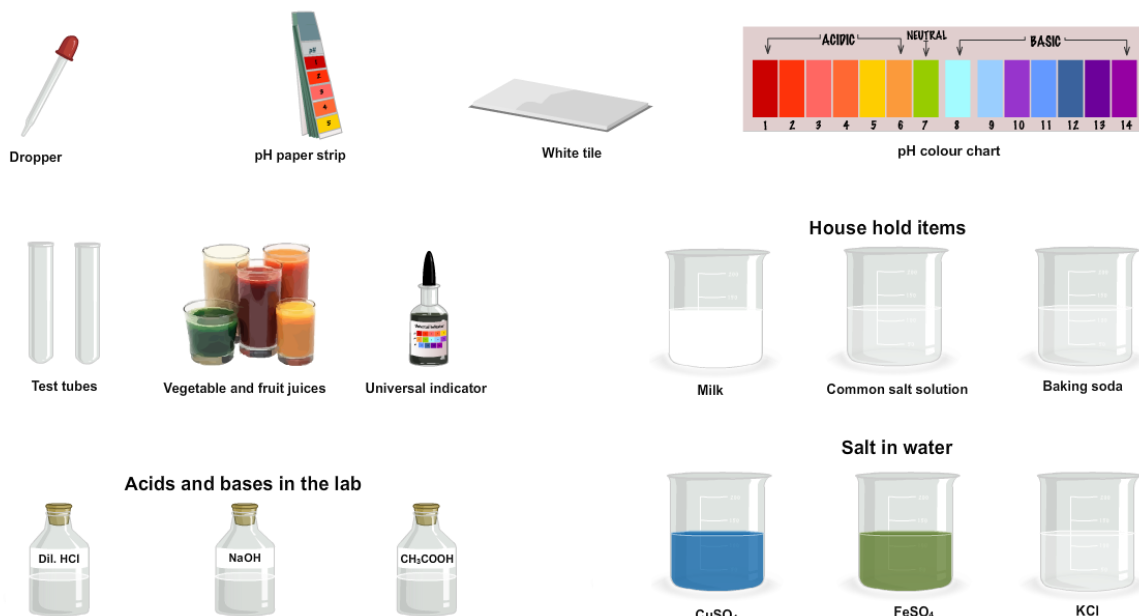


Materials Required:



Procedure:

As performed in a real lab:

1. Take six strips pH paper and place them on a glazed tile. Mark them 1 to 6.
2. Take the test solutions in separate test tubes. Dissolve the solid substance by adding distilled water to it. Label the test tubes.
3. Now, place a drop of the test solution on one strip of the pH paper with the help of a fine dropper or glass rod. Use a fresh dropper for each test solution.
4. Observe the colour produced and match it with the different colour shades of the standard colour pH chart.
5. Note down the colour of the pH from the colour chart that matches most closely with the colour produced on the pH paper.
6. Similarly, find the pH value of the remaining samples by using a fresh strip of pH paper and a separate glass rod or fine dropper for each one.

As performed using the simulator:

Using the pH strip:

Using the Universal Indicator:

1. You can select the aqueous solution type you want to find the pH value of, from the 'Select Aqueous Solution' drop down list (vegetable & fruit juices, household items, acids and bases in the lab or salts in water).
2. Now choose any one of the solutions in the beaker by clicking on it.
3. There are two ways of finding the pH value of the solution:
 - a. Click and drag the dropper from the stand and move into the solution in the beaker to collect the solution in the dropper.
 - b. Still holding the dropper, move it from the beaker over to the pH strip and release it.
 - c. To find the pH value of the solution, select the colour from the menu on the left by clicking and dragging it to the pH strip and comparing it.
 - d. The colour that matches with the spot on the pH strip indicates the pH value of the solution.
 - e. Click and drag the dropper from the universal indicator bottle and move it into the solution in the beaker to drop the universal indicator into it.
 - f. To find the pH value of the solution, select the colour from the menu on the left by clicking and dragging it next to the solution in the beaker and comparing it.
 - g. The colour that matches with the solution in the beaker indicates the pH value of the solution.

Note:

- Once test is done using the Universal Indicator, you cannot do it with the pH strip. To do it with the pH strip, click the 'Reset' button and vice versa.
- The 'Reset' button can be used to redo the experiment with other solutions.

Observations:

Sl.No	Sample solution	Colour produced on pH paper	Approximate pH	Inference
1	Dil.HCl			
2	Dil. NaOH			
3	Dil. Ethanoic acid			
4	Lemon juice			
5	Water			
6	Dil. Sodium bicarbonate sol.			

Precautions:

1. Use only the standard colour chart supplied with the pH paper for assessing the pH value.
2. Keep the pH strips away from chemical fumes.
3. Either use fresh fine dropper or glass rod for each different sample, or wash the dropper or rod well with water every time.