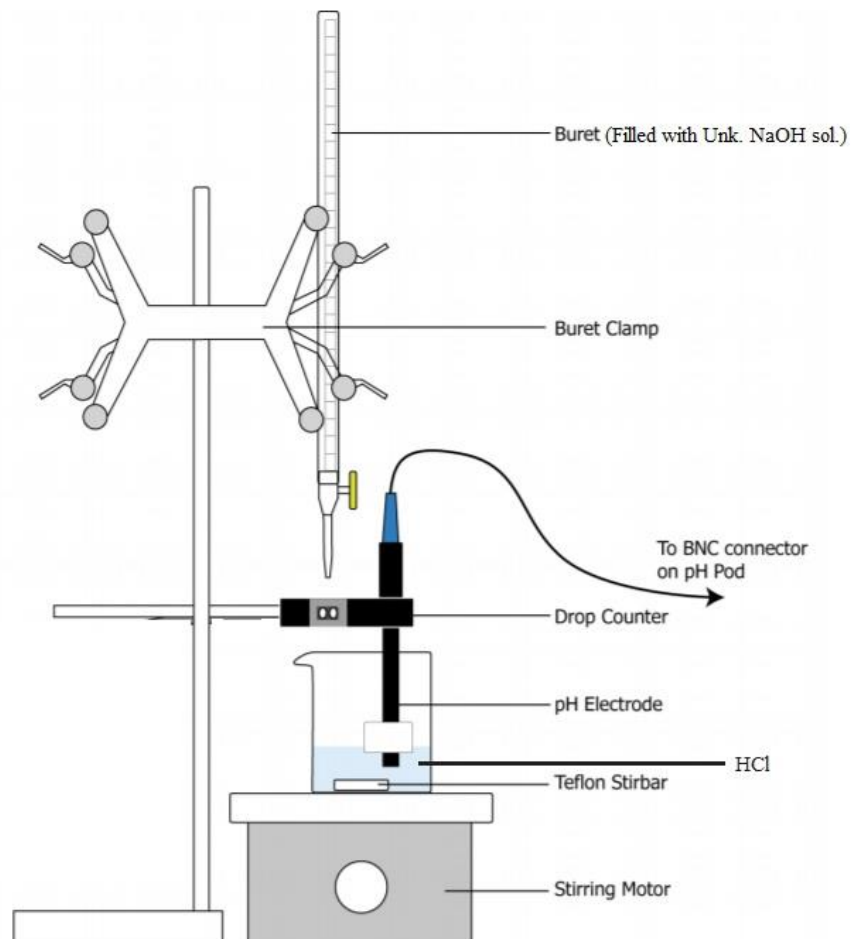


# Determination of pH in some Water Samples

- 1- Plug in the pH meter to power source and let it warm up for 5 to 10 minutes.
- 2- Wash the glass electrode with distilled water and clean slowly with a soft tissue.
- 3- Construct the system as shown in the photo below:



- 4- Place the electrode in pH 10 buffer solution and Calibrate the value of 10 on the pH meter.
- 5- Take out the electrode, wash it with distilled water and clean it up.
- 6- Repeat step (4) with pH 7 & 4 Buffer solutions, Then step (5).
- 7- Now place the electrode in the water sample which pH is to be determined.
- 8- Repeat step (6) with all Water Samples.
- 9- Wash the Electrode and Turn off the Instrument.

## Results:

No	Buffers & Samples	pH Value
1	Buffer 1 (pH 10)	$\approx 10$
2	Buffer 2 (pH 7)	$\approx 7$
3	Buffer 3 (pH 4)	$\approx 4$
4	Bottled Water	pH <sub>1</sub>
5	Uni. Water	pH <sub>2</sub>
6	Student's Sample (1)	pH <sub>3</sub>
7	Student's Sample (2)	pH <sub>4</sub>
8	Student's Sample (3)	pH <sub>5</sub>

## Titration Graph:

