VALENCIA COLLEGE

Chemistry

Lab Technique 14: Using Digital pH Sensor

A digital pH sensor is an electronic device that measures the pH of a solution.	
Calibration: It should already be calibrated. Verify that it is.	
Remove the cap on the tip of the pH Sensor and notice where you place it so that it does not get lost.	
Rinse the sensor with DI water and dry it well with a KimWipe.	
Turn it on.	
Open the pH Buffer 7 solution and place the sensor inside. Make sure the slit on the bottom of the sensor is submerged in the solution. Stir it slightly to remove air bubbles. Allow it to stabilize. It should read between 6.90 – 7.10.	
If not, remove, rinse, and dry the sensor. Place the cap back on. Give the un-calibrated pH to your professor and obtain another one. Recap the Buffer 7.	
To Use:	
Rinse the sensor with DI water and dry it well with a KimWipe.	
Place sensor inside of the aqueous sample.	
Make sure the slit on the bottom of the sensor is submerged in the solution. Stir it slightly to remove air bubbles.	
Allow it to stabilize. If it doesn't quite stabilize, after 30 seconds, record the average reading.	
When done with all readings, turn off, rinse and dry the sensor. Place the cap back on.	