Lesson Title: Prospect Park Water Analysis

Objectives: SWBAT...

Utilize a water testing kit. Understand what the different parameters mean to the health of a body of water. Think analytically to compare various sampling sites

Lesson duration: 5 days

Aim: How healthy are the water systems in Prospect Park?

Do Now: Prepare water testing materials for going to Prospect Park

Materials:

-Student data collection sheets and graph paper

-LaMotte water testing kits

-pipets, bucket, discard jar, thermometer, timers

Procedure:

- 1. Utilizing the map of Prospect Park, there are a total of 8 sites (plus one extra in case of surplus time), with 2 sites to be tested each week (time permitting). Choose 2 sites in close proximity to eachother so as to facilitate transport.
- 2. Divide class into groups. Each group is provided La Motte tests for pH, chlorine, nitrate, dissolved oxygen, as well as a thermometer. Data is recorded on the data sheet provided, making sure to note weather conditions on day of sampling.
- 3. On the conclusion of the 4th sampling day, discuss trends and disparities between the sites.
- 4. The 5th lesson will be in class, and allow students the opportunity to design their graphs and synthesize their group projects.

Homework: Completion of lab reports in scientific format (including the graph) for submission the following week.

Date	Water Temp.	Water Temp.				Dissolved
Jaile	olle Name	(degrees C)	Н	Chlorine (ppm)	Nitrate (ppm)	Oxygen (ppm)
	1.Lullwater					
						4
	2. Binnen Falls					
	3. Dog Beach				r	
	4. Fallkill Falls					
	5. West Side of Lake					
	6. East Side of Lake					
	7. Japanese Pond					
	8. West End Botanic Gardens					
	9. Vale of Cashmere					

