Aquatic Ecology Lab Exercise 8: Sweets Mill Pond
refer to spreadsheet on class website:
http://zimmer.csufresno.edu/%7Esblumens/AquatEcol/default.html

Due before you take the Final Exam

Physical/Chemical Factors

1) What appears to be the main effect(s) of the aerator on the pond’s physical & chemical properties?

2) What evidence do we have to a relationship of the aerator in the pond and water clarity?

3) What other factors should be considered before concluding a causal effect of the aerator and water clarity?

Biological

4) The aerator is marketed as a solution to excess organic matter in the water through the oxygenation of deeper water. The purported mechanism is that bacteria are better able to decompose organic matter in an oxygenated environment.

Completely describe a simple experiment to test this.

5) What solutions would you suggest to the problem of bluegills (fish) biting the nipples and ‘other appendages’ of swimmers?

6) Would your solution (to #5) have further implications for water quality or clarity? If so, describe them.