

Water Quality Project Final Report

Field Ecology

This report is an individual assignment. It should be written in the PAST TENSE (because you will be completing this report after your project is complete). When you are done, e-mail your work to dan.bregar@corvallis.k12.or.us with the subject line “per X *your name* wq final”.

Introduction:

This section of your report consists of a description of your question and background information about your project. You should revise the information you wrote in parts 1 and 2 for the assignment you did earlier - [Water Quality Project Final Proposal](#).

Methods:

This section of your report will describe how you collected your data. Your methods should take the form of two step-by-step lists. The first list should describe what you measured about water quality and how you measured it; the second list should describe what you measured about your second factor and how you made those measurements.

Make sure that your instructions are clear, detailed, and describe the actual steps you took to make your measurements.

Results:

This section of your report will describe the information you found and should include a data table (NOT a graph!) that summarizes the measurements and calculations you made.

Your data table should be formatted in a professional-looking way and include proper column headings.

This section of your report should also include a paragraph or two that verbally describes the data you’ve collected. In this paragraph, you could discuss average values, low and high measurements, and any differences you noted between the two days that you collected data for the project. In this paragraph, you should also note any of the data in your table that is hypothetical.

Discussion:

In this section of your report, you will use your data to answer your question. This section will include a graph that shows the trend in your data along with your interpretation of this graph and an overall critique of your study.

Your graph should be an x-y scatterplot that includes a trend line and an R^2 value. It should be neat and professional-looking, with appropriate titles for the graph and each axis.

For your written analysis, answer the following questions (in paragraph form) for EACH graph*:

1. What was the correlation that your data shows – positive (up and to the right); negative (down and to the right); or none (more-or-less horizontal line)?
2. What does this correlation tell you about the answer to your question?
3. What does your R^2 value tell you about your confidence in this answer (the closer to 1, the more confident you are that your data really shows this trend)?
4. What ecological factors do you think might have influenced the correlation (or lack thereof) that you see?

Your response to questions 1-3 should be one or two sentences long at most. Your response to question 4 should be about one paragraph in length.