

Aquatic Macroinvertebrate Study Final Report

Field Ecology

This report is an **individual** assignment. It should be written in the PAST TENSE (because you are writing this report after your project is complete). Please submit your completed report through Google Classroom

Introduction:

This section of your report consists of our class's "What is the Relationship Between" question along with one or two sentences that add some additional explanatory information (for example, you could add information that clarifies the connection between water depth, water speed, and rockiness).

Results:

This section of your report consists of our class's complete data table from the website. Neatly and professionally format this data table, then copy and paste it into a Microsoft Word or Google Docs document. Do not include your graph or any of the other information from the spreadsheet.

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

Discussion:

In this section of your report, you will use our data and your graph to answer your question. This section will include a graph that shows the trend in our data (for the whole class), the R^2 values associated with the trend, and your interpretation of this trend. It will also include a short critique of our study.

Your graph should be an x-y scatterplot with a trend line and R^2 value. It should be neat and professional-looking, with appropriate titles for the graph and each axis. Copy and paste your graph from Excel into your Word document.

For your written analysis, answer the following questions for your graph (in paragraph form; 1-2 paragraphs total):

1. What was the answer to our WITRB question: both factors increase (the trend line goes up and to the right); as one factor increases, the other decreases (the trend line goes down and to the right); or none (more-or-less horizontal line)?
2. Based on your R^2 values, does your data really seem to fit the trend? You can assume with this much data, we have enough information for the trend to be meaningful?
3. Supposing the trend you saw is correct, why do you think this relationship exists? In other words, what is causing your factors to show the relationship they show?
4. What are some of the possible sources of error in your study? In other words, what changes would you make if we were to repeat this study in order to obtain more accurate results?

