

Field Study Write-Up

Field Biology

This write-up template will identify the study you are carrying out involving the aquatic macro-invertebrates that live in Jackson Creek. This assignment is an individual assignment, and it needs to be typed. At this point the class has a “What is the relationship between” question that you are attempting to answer. This assignment is due at the end of the period on Wednesday November 23rd. It needs to be typed using the template that is on the Field Biology website and then e-mail it to dan.bregar@corvallis.k12.or.us with the subject “per *X your name* AMI”.

Your proposal should describe what you are investigating at Jackson Creek and how you will conduct your study. Use the attached form to compose and complete your write-up.

1. Question: In “what is the relationship between” form write the question that you will be trying to answer. In several sentences describe why you feel there might be a relationship between the subjects in your question and why you are interesting in finding out the answer to the question.

2. Background Information: You need to answer the questions in order to show you have the information necessary in understanding these organisms well enough to carry out your investigation.

3. Methods: For each element of your question, describe HOW you will collect your data. Be as specific as possible – your methods should take the form of a step-by-step list that anyone could follow. In writing your methods, think about the instructions you would need to give someone in order for them to collect your data for you.

4. Data Form: Make a data form that fits the information you are recording. This should be labeled in order for someone reading your report understands what you have recorded.

5. Materials: Include a list of all the materials you will need for your study.

6. Analysis: In three or four sentences, explain how you will use your data to answer your question. Identify how you will need to format your data using tables and graphs, explain what the different possible answers to your question could be, and describe how your data indicates which answer is the correct one. Other possible factors affecting the results should be outlined in this section and explained.

Name_____

Period and Date_____

Field Biology

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Question you are analyzing and 2-3 sentences on why you are interested in this subject:

Background Info:

1. List 5 of the aquatic macro-invertebrates that live in Jackson creek and include the scientific name.
2. List 3 examples of what the aquatic macro-invertebrates of Jackson creek consume.
3. Describe using a sketch or several sentences describing the role that aquatic macro-invertebrates play in the food web.
4. Describe or draw the habitat that the aquatic macro-invertebrates live in. Include at least 3 abiotic and 2 biotic factors and label the factors accordingly.

Methods: (describe how you carried out/did your study)

Data:

Materials:

Analysis: (What have you found out based on the study? This should be a paragraph describing your results and it will need to include a graph of your data to support your conclusions)

Check: In order for you to ensure you have included all the important information needed in this write-up use this check list/rubric. Place a check in each area that you believe your write-up represents. This is the criteria I will be grading this paper on also.

	4	3	2	1	0
Methods section	Excellent explanation. Enough information for someone's Grandmother to be able to replicate it.	All information present but inadequate order and confusing explanation.	Missing information. Not readily replicable by others.	Very limited information. Unable to decipher what was done by participant.	Missing. No information at all.
Data	Well organized. Precise and accurate.	Organized and accurate	Organized but limited in it's accuracy	Very limited data. Not complete.	Missing. No information at all.
Analysis	Thorough explanation of analytic process utilizing data to arrive at logical conclusions. Graph is present and is an appropriate display of data.	Explanation accurate but logic is hard to understand by reader. Graph is present and is an appropriate display of data.	Explanation is missing key connections between data and conclusions. Graph is present but missing some data.	Data and conclusion do not match in a logical manner. Graph is limiting and not representative of data.	Missing. No information at all.