Evolution Lab

In this lab we will focus on the conclusion. You will need to use Microsoft Office word or Apples iWork to complete this assignment. For this lab you need to e-mail in to [adam.lundquist@nn.k12.va.us](mailto:adam.lundquist@nn.k12.va.us), a word document that contains the following information. The rubric is on the adjacent page.

* Please put your name and your partners name in the upper right hand corner of the page
* Next type your papers title. A good title describes the two variables tested.
* DO NOT summarize your data, you would have done that in your data section. Here you are just referencing back to it. For example “From figure 1 we see that the population of snails with thin shells increased ... ”
* As you will be telling me why your data says things I will need you to include your final graphs and figures from this lab. DO NOT give me each graph created by this simulation! You should provide only the beginning and the end, as well as any other graph you feel necessary to reference to explain your final conclusion.
* Your conclusion should be double spaced and free of grammatical and spelling errors
* Here are the general ideas I suggest you follow for each paragraph:
  + **Do you accept or reject your hypothesis** (which graph and what about it allows you to do so?)
  + **Why did the populations appear different from the start?**
  + **What type of evolutionary trend / selection does each side show** (they can be the same).
* You will not need to utilize EVERY buzzword, however you should where able to.

SAVE YOUR FILE AS: CONCLUSION your-last-name your-partners-last-name

so If I were to save my file it would appear as: CONCLUSION Lundquist.docx

Email your file to [ADAM.LUNDQUIST@NN.K12.VA.US](mailto:ADAM.LUNDQUIST@NN.K12.VA.US)   
with the subject: CONCLUSION your-last-name your-partner’s-last-name

Do you accept or reject this hypothesis?

*“The population of east and west coast snails are distinctly different and no environmental pressure could cause them to resemble each other.”*

Buzz words to aid you in explaining your results and either support or reject the hypothesis:

* Geographic isolation
* Disruptive selection
* Stabilizing selection
* Directional selection
* Predator
* Prey

STUDENTS:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
student 1 student 2

Each box is worth one of 25 points.

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| --- | --- | --- | --- | --- | --- |
| **Formatting issues and data**  /10 | Names in correct location | Graphs are large enough to be legible | ONLY Analyzed data included | Graphs imbedded in document  (Don’t send them separate or make me hunt for them) | Graphs have titles, and are referenced (Fig. #) |
| Title is descriptive of the variables tested | Title is bolded | In text citation for any not original work (Author, year) | One source | Second source |
| **Conclusion**  This section is out of 15 and is by its very nature slightly discretionary. I am well aware you are not a biology major and therefore do not expect you to reinvent the theory of evolution. However I do expect you to show some knowledge of the principles of the theory and how they applied to this simulation. If you follow my suggestion for paragraph ideas you will be fine  **/15** | **5** | **4** | **3** | **2** | **1** |
| Conclusions based on data, and explained each idea thoroughly. | | | | |
| Conclusions reflect a detailed understanding of the processes of evolution | | | | |
| Conclusion as a whole flowed nicely from one idea to the next. | | | | |

**Grade update: 1st student 2nd student**

Assignments (60%): \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_

Quizzes (20%): \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_

Presentation (10%) \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_