

List any other materials needed:

Procedures: List all the steps you will take to complete your lab.

Experimental Design: Draw a picture and label how you will set up your lab.

Errors: List 4 possible sources of error in your lab and how they might influence your results. (hint: think about how your lab is different than what is actually happening in the GSL)

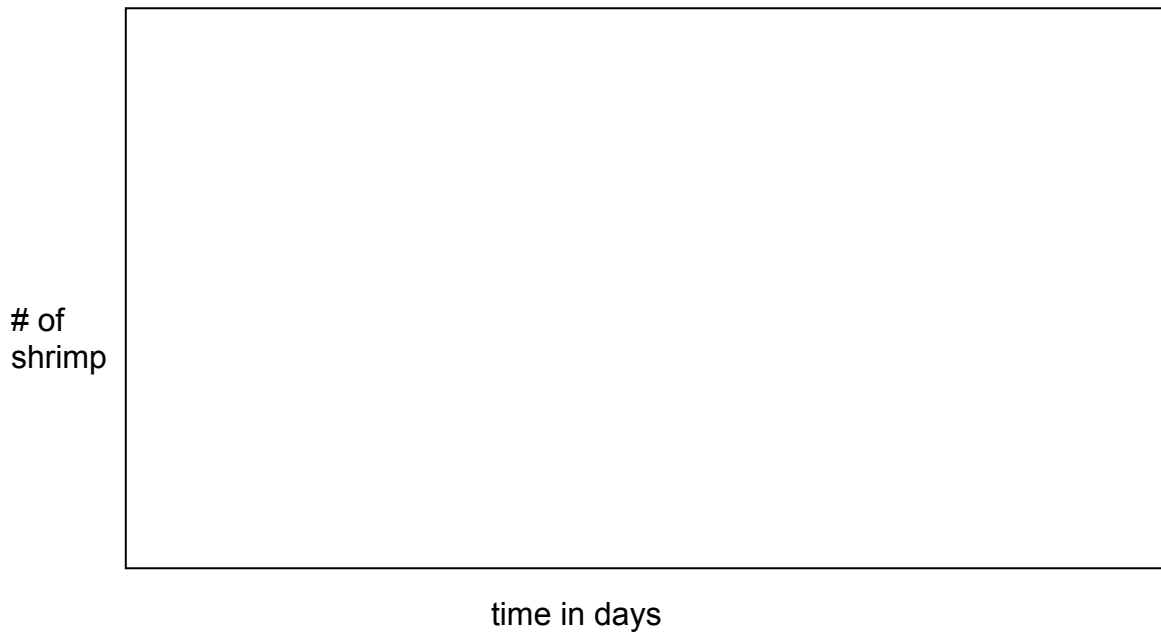
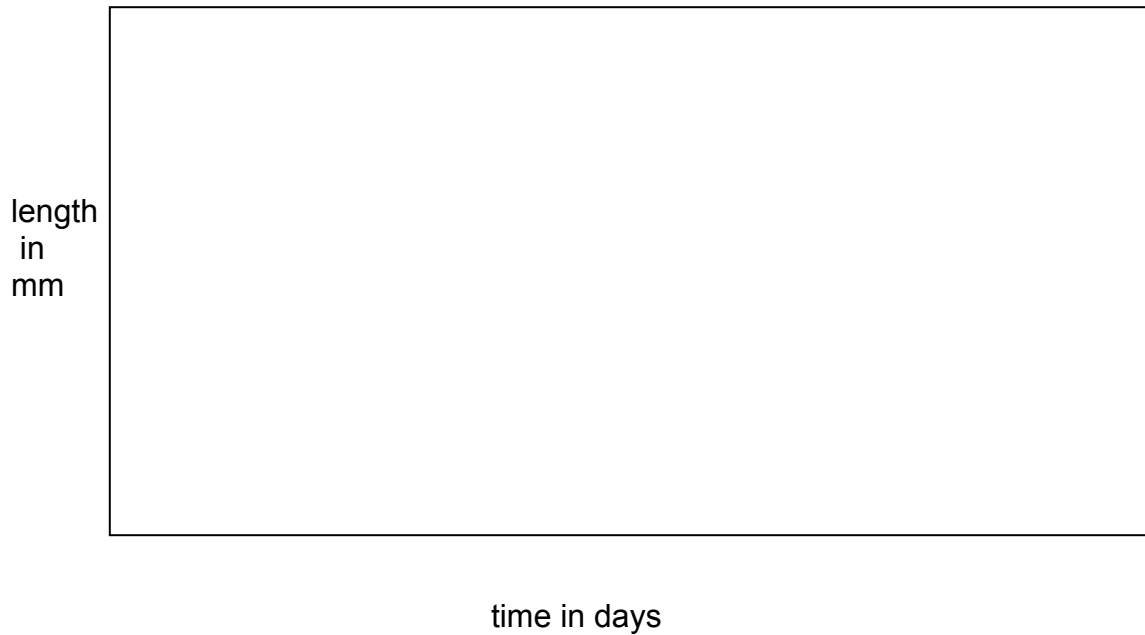
Write a Hypothesis: Create a hypothesis related to the problem. Remember a hypothesis is what you think the answer to your problem is. A hypothesis may be written as, if this happens, then this will happen. Example: If brine shrimp eggs are exposed to . . .then. . . will occur.

Approval Signature_____

Written Observations (use additional paper as necessary)

Day	Jar #	Jar #	Jar #

Analyze the data: This is where you graph your results from your tables and interpret them. A line graph will probably work best.



Error Analysis

1. Discuss all possible errors that you encountered with your lab and how they may have affected your results.
2. Is it normal to have errors in a lab? What should you do if you make an error?
3. Explain 3 reasons why you think that your shrimp did not hatch and what you could do next time to assure that they did. **(ONLY answer this question if no shrimp in any of your jar hatched,including your control.)**

Conclusions

1. Did your results support your hypothesis? Why or why would this be the case?
2. How does your experimental variable (salt levels, acid levels etc) relate to the variable effecting the Great Salt Lake in reality?
3. How would you interpret your results. Are you concerned about the results of your experiment and the implications for the GSL? Why or why not?
4. Explain what would happen to your ecosystem if the problem you investigated goes unchecked?
5. In order to obtain more data describe another experiment you could perform.

6. Draw a picture and explain how the water cycle was functioning in your jar.

 7. Draw a picture and explain how the carbon cycle was function in your jar.

 8. Please list the abiotic and biotic factors that were a part of your ecosystem.

 9. Please list the abiotic and biotic factors that were missing in your ecosystem but are present in the actual GSL ecosystem.

 10. How do these missing factors influence the ecosystem?

 11. Explain how environmentalists would feel about the results of your experiment? What would be their bias when interpreting the results?

 12. Explain how a nonenvironmentalists would feel about the results of your experiment? What would be their bias when interpreting the results?
- Summary Analysis:** Please explain in complete sentences 4 things you learned from this project.