

# Hatching Brine Shrimp Formal Lab Report

## I Format

- A. Report should be typed.
- B. Doubled Spaced.
- C. 1" Margins
- D. 12 point font
- E. Questions should be printed in either a different color (red or blue), italicized or bold print, while the answer should be in plain black 12pt. font to differentiate between question and answer.
- F. Answer questions in complete sentences.
- G. Lab report should follow the scientific method format. Use the steps as headings in the report.

## II Title Page

- A. Include title (center of page)
- B. Heading (bottom right hand side)
  1. Names of each member in the group

↓ ↓ ↓ 2. Section ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓  
3. Date ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓

## III Problem - *How does salt affect the hatching and growth of brine shrimp?*

## IV Gathering Information

- A. What are some relatives of brine shrimp?
- B. What is the kingdom, phylum and class of brine shrimp?
- C. How are they an integral part of their natural ecosystem?
- D. What unique adaptation do the brine shrimp have in relationship to their eggs that help their species survive?
- E. With color pencils draw a brine shrimp, and include a title.

## V State the Hypothesis – *Answer the question in the problem (I think or an if & then statement).*

## VI Test the Hypothesis

- A. List the materials your group used in your experiment.
- B. List the procedural steps of your experiment numerically.
- C. Data - *Make a data table of the population growth from the group's results. Please give the table a title.*

D. Results – *Graphing the data in the data table.*

1. Follow the directions given from the handout “*Graphing Data in a Microsoft Excel Spreadsheet*” to make a line graph.
2. Follow the directions given from the handout “*Graphing Data in a Microsoft Excel Spreadsheet*” to make a bar graph.
3. Both graphs need a title and key.

## VII Conclusion

- A. Which graph illustrates the data more effectively the line or bar graph? Explain.
- B. Why do we use graphs to analyze data?
- C. What was your control in this experiment? (Hint: not the eggs.)
- D. What were your variables? (What were you trying to find out or test? Hint: not the eggs.)
- E. Identify any environmental or procedural variables (lighting, temperature, method of collecting data etc.) that may have had an impact on your results. Explain how.
- F. Were there any accidents or other events that happened, that could of or did affect your results? If so, please explain what happened, and how it affected your results.
- G. Describe the contents of each jar after one week. Do they differ from one another? How?
- H. Did the results support your hypothesis? Explain why or why not using your data to support your answer.
- I. Predict the effect that increasing the amount of salt in the water would have on the brine shrimp eggs.
- J. How does your results compare to those of other groups in class?
- K. If you were to re-test your hypothesis, would you change anything regarding how you carried out your experiment? (materials, procedural steps, environmental conditions, etc.) If so, explain what you would change and why.