

## Egg Lab: Lab Report

Due Date \_\_\_\_\_

10 pts./day off for labs handed in late.

This lab will be graded as a **TEST Grade!**



*Please use the following rubric as a **checklist** when doing your lab report.*

**Heading:** Name, Date, Period, Title of Lab (using the Independent and Dependent Variables)

**(16 pts.) Graphs** - Using line graphs, first graph the circumference of the egg in 10ths. Second graph should plot the mass of the egg by 1's. X-axis should be labeled Day 1, 2, & 3 etc. Y-axis should be labeled circumference in (cm) or mass (g). **\*\*See Graph Rules for further details!**

---

**(82 pts.) Conclusion** - The conclusion should be written in paragraph form using complete sentences.

(Use outline that follows to help organize everything that must be addressed in the conclusion.)

**(1 pts)** Collapse all **5 questions from the beginning into one question.**

**(50 pts)** Answer the questions from the lab addressing **each of the different solutions in separate paragraphs**, backing up your answer with your data (your measurements of the egg and changes in the volumes of your solutions) using complete sentences. (What effect did the different solutions have on the egg's size? You should also mention what effect vinegar had on the egg's shell.)

**(25 pts)** Include in the above explanation the **direction in which each solution diffused** through the egg (into or out of the egg through the cell

membrane.) After each answer, **tell whether or not** (in a complete sentence) **your hypothesis was supported.**

**(4 pts.) Explain any difficulties you had with the lab. (You cannot say that you didn't have any difficulties.)** Do you think your data was different from others? Do you think you measured accurately? Give examples . . . Lastly, **how could you improve the lab?** (You cannot say there is nothing to improve.)

**(2 pts) Finally, answer the following questions in complete sentences:** 1.) In knowing what you do about which direction water flowed into your egg cell, why do you think grocery stores spray their vegetables with water as it relates to osmosis/diffusion?  
2.) Keeping in mind what happened to your egg cell when you placed it in salt water, why could someone die if they were stranded at sea and drank seawater (relating to osmosis or diffusion)?

---

**(4 pts) Typed in 12-14 font, or neatly hand written in blue or black ink.**

---

### **Egg Lab Conclusion Outline**

- I. Collapse all questions into one.**
- II. Separate paragraph in answering question for each solution.**
  - Answer question (When the egg was placed in \_\_\_\_\_ it got bigger/smaller.)
  - Data/evidence to support your answer: **Mass, Circumference, and Difference in Volume**
  - Soln. diffused in or out
  - Hypothesis supported or not
- III. Difficulties and way to improve lab**
- IV. Answer two questions (see rubric)**

**Graphic Organizer for part II:**

	<b>VINEGAR</b>	<b>COLORED WATER</b>	<b>SALT WATER</b>	<b>CLEAR WATER</b>
<b>Did egg get bigger or smaller?</b>				
<b>Evidence: Mass, Circumference, Dif. in Volume</b>				
<b>Diffused in or out?</b>				
<b>Hypothesis supported or not?</b>				

**3-4 sentences for each solution. "When the egg was placed in . . ."**