

# Egg Osmosis Lab

**Background Information:** A chicken egg is one of the largest single cells we can easily observe. It contains all the organelles and has the properties of a typical eukaryotic cell. The fact that it is easy to obtain, easy to handle, and easily measured makes it an ideal cell to study when examining osmosis and solutions.

**Terms to Know:** (this can be considered research)

plasma membrane/cell membrane	semi-permeable
osmosis	plasmolysis
diffusion	cytolysis
hypotonic solution	turgor pressure
hypertonic solution	isotonic solution

**Objective:** To examine how cells are affected by changing environments, through measurement of mass and careful observation.

Each group of students will receive a decalcified egg to examine. The eggs are somewhat fragile – **HANDLE WITH CARE!!** If you break your egg, you will have to start over and will receive a late lab grade.

**Hypothesis:** What do you predict will happen with each of the eggs?

**Data:**

Each member of the group will need to set up a data chart similar to the following.

Day	Procedure	Solution	Observations	Explanation

**Procedure** – What is done every day?

**Solution** – Is it hypertonic, hypotonic, or isotonic?

**Observations** – Any and all observations made. Must include the mass in grams, but should also include qualitative observations.

**Explanation** – What happened? Which way did water move? Why did it affect your cell? Summarize clearly and use terminology of the chapter!

**Results:**

1. What would be necessary for plasmolysis to occur in our egg? Why?
2. What would be necessary for cytolysis to occur in our egg? Why?
3. What would happen if a fish that normally lives in salt water condition is put into fresh water? Why?
4. Can cytolysis occur in plant cells? Why or why not?
5. What is the relationship of osmosis and turgor pressure?
6. Which egg changed the most? Why?

# Measuring Up Biology Eoc Answer Key Texas

**L Darling-Hammond**



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