

# Diffusion and Osmosis Lab Report

*Instructions: In this lab activity, you will investigate membrane permeability to specific substances and how that affects diffusion. You will also investigate how the concentration of a solution will affect the water potential of a plant cell. Lastly, you will create your own investigation to test the effects of cell size or temperature on the exchange of materials between cells and the environment. Submit your lab report to your instructor when completed.*

**Title:** Diffusion and Osmosis Lab Report

**Objective(s):**

- Explain concepts of diffusion and osmosis
- How will the concentration of a solution affect the water potential of a plant cell?
- How membrane permeability affects diffusion?
- Test the movement of molecules using chemicals

**Hypothesis:**

**Part 1:** If I put starch and water in a bag and place it in a bowl of water and iodine, the iodine will move into the bag, but the starch will not be able to move out of the bag because it is a large molecule and cannot move through the "membrane" like the iodine will.

**Part 2:** If we put a potato and apple pieces in different molarity solutions of sugar, in the beginning water with no sugar will move into the apple and potato but, but as more sugar is added to the water I expect the potatoes and apples to absorb less water or not absorb at all because osmosis will try to make the solution and the apples and potatoes isotonic to each other

**Part 3:** In this case the largest Surface Area to Volume ratio (the largest cells) will have the highest rate of efficiency

**Procedure:**

**Materials:**

- Four large plastic cups or bowls
- Eight small cups/bowls
- Two thin non-durable zip-lock plastic sandwich bags (the generic version work best)
- Measuring cups and spoons
- Iodine
- ¼ cup cornstarch or small potato
- Strainer (optional)
- Paper towels
- 100 mL distilled water
- 60 g or 5 tbs sugar (sucrose)
- One potato
- One of the following: sweet potato, pear, or apple
- Aluminum foil or plastic wrap
- Knife
- Metric ruler

# Diffusion Lab Osmosis Report

**EW Minium**



## **Diffusion Lab Osmosis Report:**

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