

Experiment 1

Learning objective: To compare the rate of osmosis of potato cubes with varying surface area to volume ratios in varying solutions.

Tasks:

- Perform the experiment
- Calculate surface area and volume of all cubes
- Calculate the final weight of the cubes post experiment
- Determine the rate of osmosis for each scenario and make a conclusion

File name: Lastname_Experiment_Date.csv

Metadata:

Treatment: the total surface area to volume ratio of the potato cubes in the solution (cm^2/cm^3)

Concentration: the percentage of NaCl within the solution (%NaCl)

Initial weight: the total weight of the cube (s) before the experiment is conducted (before they are submerged in the solution) (g)

Final weight: the total weight of the cube (s) after the experiment is conducted (when removed from the solution) (g)

Marking:

- 1 point for correctly titled dataset file in csv format
- 1 point for metadata occurring on first worksheet, before raw data
- 1 point for each description of data (4 points total)
- 1 point for each correct set of units (4 points total)

Total points: 10