

OSMOSIS LAB

Research Question

What salt concentration has the same water potential as potato tuber tissue?

Instructions

- Set up your solutions: Fill 6 small beakers, each with a different one of the following salt concentrations: 0, 1, 2, 3, 4, 5 g/100ml. 100 ml of each.
- Using the cork borer, get 18 potato strips.
- Using a scalpel and chopping board, chop each potato strip to the same length (60mm is reasonable).
- Place 3 of each potato strip into the different salt concentrations and start the stopwatch.
- After 20 minutes, remove the potato strips from each solution (don't mix them up!)
- Measure the length of each potato strip, and note its texture (turgid/flaccid/no change). Record all of your data.



Write-up

1. Evaluate your experiment (describe the strengths and limitations).

Strengths

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Limitations

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[3]

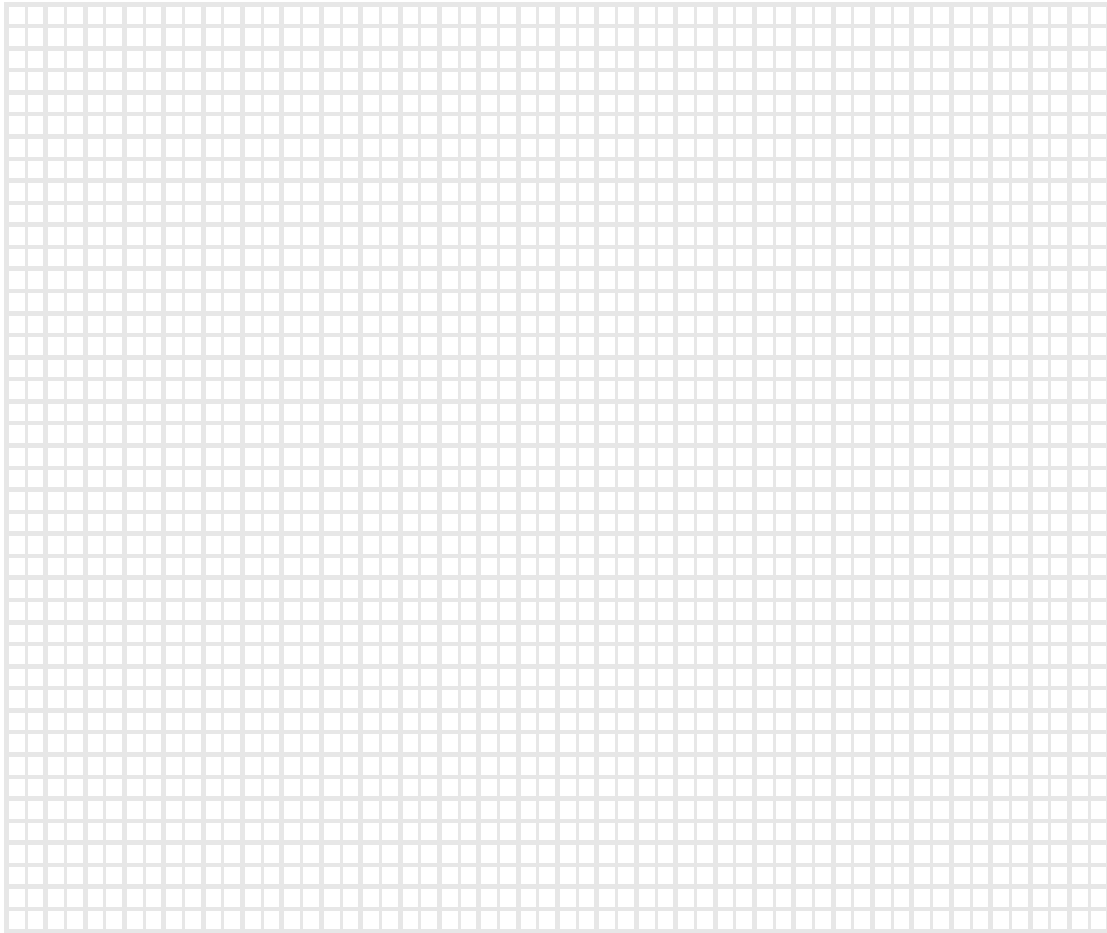
2. In the space below draw your table of results, including initial and final potato strip length, percentage changes and texture (turgid/flaccid/no change).

[4]



3. Present your results for percentage change in length in a graph.

[4]



4. Write a conclusion (write an answer to your research question). Use a full sentence.

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[2]

