

Lab Conclusions Guidelines

Write 3 paragraphs explaining what you did in the lab. Each paragraph should contain 3-4 sentences.

Paragraph 1

Restate the problem or question. (1-2 sentences)

Restate your hypothesis. (1-2 sentences)

Paragraph 2

Briefly describe the findings. (1-2 sentences)

Answer your hypothesis. (1-2 sentences)

Explain why the experiment turned out the way it did. (2-3 sentences)



Paragraph 3

How can your findings be useful, how can it be applied, or how does your this explain the original hypothesis or problem? (2-3 sentences)

What was the weaknesses of the experiment or how could it be improved? (1-2 sentences)

What other research or experiments could be done on this subject? (2-3 sentences)

Example:

* You do not need to use dark print.

The problem in this experiment was to determine the effect of salt of and fresh water on size of potato cubes. My original hypothesis was that the potatoes cubes in the salt water would become bigger as the water diffused into the cells and the potatoes cubes in the fresh water would become smaller as the water diffused out of the cells.

The results of the experiment showed that the potato slices in the fresh water became larger and the potato cubes in the salt water became smaller. The original hypothesis was wrong. A possible explanation for this is that the fresh water moved for a high concentration outside the cells to an area of lower concentration in the cytoplasm of the potato cells causing the each cell to slightly enlarged causing the whole cube to become larger. The salt caused the cytoplasm to lose water causing the cells to shrink which caused the whole cube to become smaller.

The findings of this experiment are useful in explaining the damage that can be done to human cells if large amounts of salt water are drunk. The salt water can actually cause your body to lose water, leading to dehydration. This experiment could have been improved by developing a technique to cut the potato into cubes that are exactly the same size. Additional research could include measuring the weight of the cubes before and after soaking to determine if the weight of the potato changed as the water diffused in and out of the cells. Also, the experiment could be repeated with other types of vegetables (carrots, beans, etc.) to determine if the salt and fresh water would have the same effects.