

Write about your scientific experiment. Use the following **outline**. Use complex sentences with connection words if you can. Write 5 paragraphs.

Introduction >>> description of my experiment

Body:

- My hypothesis
- My variables.
- My process

Conclusion >>> My observations and results.

ORIGINAL

My hypothesis.

If onions are placed in a water environment enriched with organic fertilizers, they will grow better than onions in soil with the same fertilizers.

My variables.

Independent variables: Growing environment.

Dependent variables: size of plant shoots, plant color saturation, weight of harvested crops

Controlled variables: temperature, humidity, water, light, plant types.

My process.

Plants slept the first five days. Five days later things are moving. Two weeks later onions in soil showed the best results. The 21 days completely disproved my hypothesis.

Conclusion. My observation and results.

My hypothesis was completely disproved. Both samples had the dark green color during the time of the experiment. Both plants looked healthy, but onions placed in water showed the worst results in other parameters.

It would be better to have sufficient statistics. From my perspective, a good idea is to take more onions and to increase the duration of the experiment. It was found after

the experiment that soil promotes the development of a strong root system. At the same time the root system formed in water was undeveloped and weak. It means that the duration of the experiment is limited.

Organic fertilizers were used for the experiment, and the green onion shoots were valued. Therefore, it is logical to assume that the experiment with the ammonia fertilizer would be more reasonable.

TEACHER-GUIDED-EDITING:

My hypothesis. (make it as one sentence with no titles)

If onions are placed in a water environment enriched with organic fertilizers, they will grow better than onions in soil with the same fertilizers. Use past tense or quotation marks.

My variables. (make it as one sentence with no titles and no lists)

Independent variables: Growing environment.

Dependent variables: size of plant shoots, plant color saturation, weight of harvested crops

Controlled variables: temperature, humidity, water, light, plant types.

My process.

Plants slept the first five days. Five days later things are moving. Two weeks later onions in soil showed the best results. The 21 days completely disproved my hypothesis.

Conclusion. My observation and results.

My hypothesis was completely disproved. Both samples had the dark green color during the time of the experiment. Both plants looked healthy, but onions placed in water showed the worst results in other parameters.

It would be better to have sufficient statistics. From my perspective, a good idea is to take more onions and to increase the duration of the experiment. It was found after the experiment that soil promotes the development of a strong root system. At the same time the root system formed in water was undeveloped and weak. It means that the duration of the experiment is limited.

Organic fertilizers were used for the experiment, and the green onion shoots were valued.??? Therefore, it is logical to

assume that the experiment with the ammonia fertilizer would be more reasonable.

Comments:

Please edit this **in class**:

1. Your conclusion looks like an essay but all the other parts are lists with no cohesive sentences. Change the lists into sentences.
2. Correct all highlighted verbs.
3. Eliminate the paragraph titles.
4. Turn the lists into paragraphs. Make them look like paragraphs with sentences. Use connection words instead.
5. Overall, great writing! Nice sentence structures!

SELF-EDITING:

Re-growing Scraps of Onions

My hypothesis was that if onions are placed in a water environment enriched with organic fertilizers, they will grow better than onions in soil with the same fertilizers. My variables included independent, dependent, and controlled variables. The independent variable was the growing environment. Dependent variables were size of plant shoots, plant color saturation, and weight of harvested crops. Controlled variables included temperature, humidity, water, lighting, and plant types.

Let's move on to the process of conducting the experiment. Plants slept the first five days. Five days later the situation changed, onions woke up and started to grow. Two weeks later onions in soil showed the best results. The 21 days completely disproved my hypothesis.

In conclusion, I would like to share my observations and results. Although my hypothesis was completely disproved, the experiment was informative. Both samples had the dark green color during the time of the experiment. This means that for one of the dependent variables the result was the same. Both plants looked healthy, but onions placed in water showed the worst results in other parameters.

I would like to point out that it would be better to have sufficient statistics. From my perspective, a good idea is to take more onions and to increase the duration of the experiment.

It was found after the experiment that soil promotes the development of a strong root system. At the same time the root system formed in water was undeveloped and weak. It means that the duration of the experiment must be limited.

Organic fertilizers were used for the experiment, and the weight of green onion shoots were measured. Therefore, it is logical to assume that the experiment with the ammonia fertilizer would be more reasonable.

One last thing to note: it would be better to use untreated soil instead of vegetable soil for the purity of the experiment.

Comments

Teresa:

This was a beautiful experiment and your description is very precise and professional. I am glad you got to be a scientist in this class! Your writing looks great!

Evaluation:

Task and purpose

5- Does not understand the task or does not follow the prompt

10- Partially addresses some aspects of the prompt

15- Addresses all aspects of the prompt

20- Completely addresses all aspects of the prompt, including multiple paragraphs

Organization

5- Shows little to no evidence of organizational plan

10- Organizational plan includes an introduction, development and conclusion, may be within 1 paragraph

15- Uses an identifiable organizational plan in multiple paragraphs with cohesive introduction, body and concluding paragraphs and linkages

20- Establishes clear and logical organization with paragraphs, linkages, clear and accurate organizational strategies

Reasoning

5- Demonstrates little or no development; lacks details or examples

10- Has limited superficial evidence to support claims but lacks specific details; may be limited to lists, repetitions or generalizations

15- Has relevant evidence to support claims, may not be completely sufficient, and incorporates some details

20- Provides substantial and pertinent evidence to support claims

Language

5- Most sentences include errors in grammar, usage, conventions and vocabulary

10- Uses mostly correct sentences but may be limited sentence types. May have some errors in vocabulary and/or usage

15- Correct and varied sentence structure. Appropriate word choice, including some domain-specific vocabulary

20- Varied and complex sentence structures with few errors. Varied and precise domain-specific vocabulary

Student writing level

Score = 80

20-25: ESOL 3/ABE1-2

30-35: ESOL 4/ABE 2

40-55: ESOL 5/ABE 3

60-75: ESOL 6/ABE 4

80: ABE 5