

Mustard Seed Germination in Fruit Punch

2. Purpose:

The purpose of our lab was to see if mustard seeds would germinate in fruit punch.

3. Hypothesis:

If we put mustard seeds in fruit punch, then the mustard seeds will not germinate.

4. Materials:

Cups

Water

Mustard seeds

Plastic wrap

Fruit punch

5. Procedures:

1. Put 10 mustard seeds in each cup.
2. Put 5mL of water in one cup and 5mL of fruit punch in the other cup.
3. Cover the cups with plastic wrap.

6. Data:

See attached paper

7. Results:

See attached graph

8. Conclusion:

Paragraph 1: What was the purpose? What was your hypothesis and was it right or wrong?

In our experiment we tried to germinate mustard seeds in fruit punch.

Our hypothesis was that mustard seeds in fruit punch would not germinate.

Our hypothesis was correct.

Paragraph 2: Summarize the procedures. Identify the control group, the independent variable and the dependent variable. What did you learn from the lab? Support with evidence.

...Our control group was the mustard seeds in water. The independent variable was fruit punch. The dependent variable was the germination of the mustard seeds. I learned by doing this lab that mustard seeds do not germinate in fruit punch. I know this because no seeds germinated in the fruit punch, while 8 seeds germinated in the water.

Paragraph 3: Note at least two mistakes we made or hidden variables (hidden variables are things that happen out of our control) we had during the lab. How do those mistakes or hidden variables affect our data?

We put too much water in the cup and that might have caused the mustard seeds not germinate as well.

The temperature in room did not stay the same and might have affected how well the mustard seeds germinate.