Oct. 24.

Using Scientific Method

The following describes an experiment to determine the effect of additional nitrogen on plant growth. Read the paragraph carefully, then answer the questions.

Dr. Anderson set up an experiment in which she planted bean seeds in two groups, A and B. After the seeds germinated, Group A was fed a balanced application of fertilizer with additional nitrogen, as recommended by most plant growers. Group B was grown under identical conditions, except the fertilizer they received contained no additional nitrogen. Dr. Anderson observed the plants for one month. You can see the results in Figure 1.

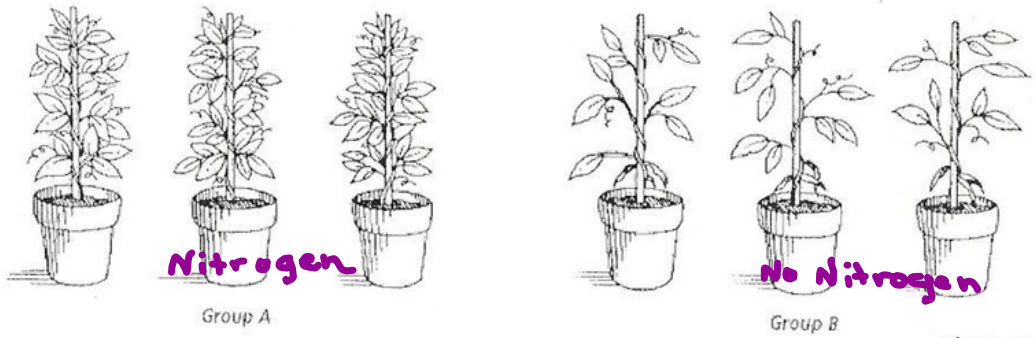

Figure 1

1) What was the hypothesis for this experiment? (Use IF... THEN ... statement)

If I put additional Nitrogen in plants Then it should grow bigger.

2) Which plants represent the control group? Explain your answer.

Group B b/c it gets no extra N_2. Grown as normal as possible.

3) Which plants represent the experimental group? Why is this group of plants the experimental group?

Group A b/c it is adding N_2. (changed)

5) What were the independent variable(s)?

Add N_2 to group A

6) What were the dependent variable(s)?

most growth (most leaves)

7) List all constants in this experiment:

Same type of plant, same type of fertilizer, same amount of water, same pot, same poles to grow on, watch both for 1 month. Same amount of light.

Attachments

Unit 1 Space Test Outline.notebook

Simpson Varibles of experiments worksheet.docx

SCIENCE PRACTICE ASSESSMENT - Grade 6.pdf

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