

Using Scientific Method

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

Dr. Row set up an experiment in which she planted bean seeds in two groups, A and B. After the seeds germinate, 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. Row observed the plants for 1 month. You see the results in Figure 1 below.



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

If I add Nitrogen to a plant it will grow better because it is recommended by growers.

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

Group B → did nothing to it

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

Group A → added Nitrogen to the plants

4) What is the independent variable(s)? (Something Changed)

Nitrogen in Group 1 but No Nitrogen for Group 2

5) What is the dependent variable(s)? (measured or observed by Scientist)

Growth of Plants

6) List all controlled variables in this experiment:

Same amount of sunlight and water, soil
Same type of pot and seeds.

Attachments

Unit 1 Space Test Outline.notebook

Simpson Variables of experiments worksheet.docx

SCIENCE PRACTICE ASSESSMENT - Grade 6.pdf

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