



TESTING THE EFFECT OF DIFFERENT FERTILIZERS ON PLANT GROWTH



Name: _____

Experiment Duration: _____ days

Date: _____

Start Date: _____



QUESTION

How do different fertilizers affect plant growth?



HYPOTHESIS

If I use different fertilizers, then

because _____



MATERIALS

- 4 small pots (or cups) with drainage
- Potting soil
- 4 fast-growing seeds (e.g., bean or radish)
- Water
- Fertilizer A (e.g., compost or organic fertilizer)
- Fertilizer B (e.g., fish emulsion)
- Fertilizer C (e.g., chemical/all-purpose fertilizer)
- No fertilizer (control)
- Ruler
- Labels or masking tape
- Measuring spoon (if needed)
- Notebook or data sheet (this sheet)
- Sunlight or grow light



PROCEDURE

1. Label the 4 pots as: Control (No Fertilizer), Fertilizer A, Fertilizer B, Fertilizer C.
2. Fill each pot with equal amounts of potting soil.
3. Plant the same number of seeds in each pot (e.g., 3 seeds per pot). Cover lightly with soil.
4. Water all pots equally.
5. Apply the assigned fertilizer to each pot according to the instructions.
6. Place all pots in the same location with the same amount of light.
7. Water all pots equally each day.
8. Measure and record plant growth every day for the number of days shown above.



CONTROLLED VARIABLES

- Same type and amount of soil
- Same number of seeds
- Same amount of water
- Same amount of sunlight
- Same size/type of pots
- Same temperature/environment



DATA TABLE – Record Your Measurements

Day	Control (No Fertilizer) Height (cm)	Fertilizer A Height (cm)	Fertilizer B Height (cm)	Fertilizer C Height (cm)	Observations (Notes)
0 (Planting Day)					
1					
2					
3					
4					
5					
6					
7					
Final Day: _____					



CONCLUSION

1. Which fertilizer worked best? _____
2. Which fertilizer worked the least? _____
3. What did you learn from this experiment? _____