



Bean Plant Project

Write-Up Instructions

PART I: The Story of Your Plant

Write a one page summary of the life of your bean plant. Be specific and include dates, measurements, reasons for change and things you have learned from growing your bean.

PART II: The Parts of a Plant

Discuss the six major plant parts and the functions performed by each for the survival of the plant. Be specific and include tissues and processes. The plant parts are: roots, stems, leaves, flowers, fruits and seeds.

PART III: Graphing Your Plant Data

Include three graphs of your bean. Each graph must have a labeled X and Y axis, units and a title. Write a paragraph for each graph that summarizes the change represented by the graph.

1. linear stem growth (line graph)
2. leaf area growth rate (line graph)
3. plant mass (bar graph)

PART IV: Drawing the Stages of Your Plant

Include five hand drawings of your bean plant showing growth. Make a drawing at each of the following five stages, adding color and labels.

1. When plant first emerges from soil
2. Show cotyledons and vertical shoot
3. When primary or simple leaves develop
4. When compound leaves develop, terminal bud is prominent
5. Mature plant with flower and/or fruit

PART V: Summing It All Up

What environmental conditions are necessary for optimum plant growth? How is plant growth affected if these conditions are not present? What would you do differently? What did you enjoy or dislike? Explain what this experience was like for you. What have you learned and what will you take away from this "Growing a Plant" experience? Do you have any plans to continue growing plants?

