

CALIFORNIA STATE SCIENCE FAIR 2015 PROJECT SUMMARY

Name(s)

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Project Number

J1813

Project Title

Germination and Growth of Fava Bean Plants

Abstract

Objectives/Goals

To determine the most suitable germination and growth conditions for fava bean plants.

Methods/Materials

Planted fava bean seeds in different soils, lighting conditions, and water to measure the speed of germination and growth in each setting.

Results

Fava bean plants grew faster in less sunlight but were a light green color and had less leaves than the other plants.

Conclusions/Discussion

Etiolation occurred when the fava bean plants were grown without sunlight. The stem of the plant elongated quickly and without many leaves to increase the chance to find light. The energy for photosynthesis comes from sunlight. Without sunlight, the chlorophyl in the plant is slowly destroyed. Therefore, the plants were a light green.

Summary Statement

Conditions to increase the speed of fava bean plant germination and growth

Help Received

My science teacher, Mr Penkala, taught me how to create charts in Excel. Thank you Mr Penkala!