



Colorado Science and Engineering Fair

2024 Individual Project Abstract Form

Please print 2 copies of the completed form. Sign both copies, keep 1 for your notebook and submit 1 copy to your Regional Fair Director with your other paperwork.

Title of Project: Does a Pothos plant grow better in Sunlight or Darkness.

Finalist's Name: Courtney Francone

School and City: Wiggins Middle and High school, Wiggins

Sponsor's Name: Carol Francone

Category: Plant Sciences (PLNT)

Division: Junior (6th - 8th grades)

Abstract (250 words or less):

The purpose for this project was to see if a Pothos plant would grow faster in sunlight or darkness. My hypothesis was that the Pothos plant that is in the light would grow more rapidly than the Pothos plant in the darkness.

The experiment involved two Pothos plants, water, a tape measure, and some sticky notes for the testing. First I bought two Pothos plants similar in size. Then, every other day I measured three different leaf shoots on each plant, which were each labeled with three different color sticky notes.

The data collected from this experiment determined that the Pothos plant that was in the dark grew more rapidly than the one that was in the light. The hypothesis was incorrect because the plant in the sun grew less quickly than the one placed in darkness. The average growth of the three stems tagged on plant one in the sunlight was 3.5 centimeters and the average growth of the three stems tagged on plant two in the darkness was 4.8 centimeters.

These findings led me to believe that the Pothos plant in the darkness would grow faster in search of sunlight. The Pothos plant in the sunlight had every requirement met to thrive so it did not need to grow as fast as the one without sunlight.

I hereby certify that the above statements are correct and the information provided in the Abstract is the result of one year's research. I also attest that the above properly reflects my own work.

Finalist's Signature: *Courtney Francone*

Date: *2/29/2024*

In addition, all students must complete the ISEF Student Checklist (1A), Research Plan, Approval Form (1B), and Checklist for Adult Sponsor (1), and any other ISEF forms required for this type of project. See the International Rules and Guidelines for form requirements. Return COPIES of all of these forms to your Regional Fair Director with you Finalist Verification/Permission Form. A signed copy of this form must be included in your notebook.