



Colorado Science and Engineering Fair

2025 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: What Pot is the Jackpot?

Finalist's Name: Hadley Huwa

School and City: Cardinal Community Academy, Keenesburg

Sponsor's Name: Sarah Johnson

Category: Plant Sciences

Division: Junior (grades 6 - 8)

Abstract (250 words or less):

For my science fair project, I tested if lima beans grow/sprout better or worse with three different materials of pots; plastic, ceramic, and terracotta. I think that the beans will grow best in the terracotta pot because it creates an ideal temperature within the soil. It does so, as the pot is porous. I added potting soil to the plastic, ceramic, and terracotta pot, then pressed the lima bean seeds in and sprinkled more soil on top. I set the pots underneath the growth light and left it on for 12 hours each day with a water tray beneath them. Every day I added $\frac{1}{3}$ cups of water to each pot, as they need the soil to be moist at all times, in order to thrive. In my data collection process, I concluded that the lima beans grew the best and fastest inside the plastic pot. The beans in the terracotta pot were a runner up, and the beans in the ceramic pot grew the least. I think I got this result because of the amount of water and moisture in the pots. The terracotta pot soaked up a lot of water and dried out the soil, while the ceramic pot didn't absorb any water, therefore making the soil soggy and wet. This contrasts from the plastic, as it was in between; not absorbing too much water and leaving the ideal amount of moisture inside the pot. My hypothesis was incorrect, as the lima beans grow best inside the plastic pot. I think I achieved this result because I had a very short amount of time to grow the lima beans. I had 10 days, so I didn't have a lot of time for observations. To improve my experiment for next time, I would turn the light on at the exact same time every day. I would also have started sooner to get more information into my data tables.

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:

Date:

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.**