



## 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: Need Some Fertilizer

Finalist's Name: Chase Ketels

School and City: Alta Vista Charter School, Lamar

Sponsor's Name: Marah Brase

Category: Plant Sciences

Division: Junior (grades 6 - 8)

Abstract (250 words or less):

My project is to see which fertilizer would help hay seed grow best. In this experiment I tested 4 different types of fertilizer and left one without any fertilizer as my control. In this project I used the same amount of dirt in all containers, and seeds. In this experiment I concluded that my control grew the most, however cow fertilizer did the second best, organic, horse, and then chicken. I believe that adding fertilizer would help hay seed grow taller and faster. My hypothesis was I thought that cow fertilizer would do the best, because it is most available and used in this area. I used 5 pounds of dirt in each container. I then mixed in different amounts of fertilizer depending on weight. I used 1 ounce of hay seed in each container. I watered on average 1 cup every 3 to 5 days depending on the moisture content in each container. This matters to all farmers, gardeners and people who want to grow better hay.

*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.**