



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: Like a Good Neighbor Heat Protectant is There

Finalist's Name: Maddison Juliano

School and City: Hope Community Christian Academy, Ignacio

Sponsor's Name: Barb Swain

Category: Biomedical Sciences (BMED)

Division: Junior (6th - 8th grades)

Abstract (250 words or less):

Recently, I noticed that my hair was becoming damaged from an assortment of heating tools that I was using to style my hair. But before applying a heat protectant on my hair, I wanted to research and test which product would protect against the heat the best. In my research, I learned that there are many different brands of heat protectants. I have always thought that the most expensive brands would work better, but do they?

The purpose of my experiment was to find out which heat protectant works best and at what cost?

For my procedures, I used an expensive brand, a medium-priced brand, and a low-cost brand of heat protectant to spray onto a paper store receipt. Next, I used a hair straightener set at 450° to iron each receipt. I then compared the receipts to my control receipt which had no product to see the results. I did this test 3x with each product.

From my experiment, I learned which heat protectant works best and which brand is the best buy. I concluded that the most expensive brand of heat protectant worked the best. I also discovered that the low-cost brand performed better than the medium price brand and also had comparable results to the most expensive brand.

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.