



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: The More You Grow The More You Know

Finalist's Name: Maci Hayes

School and City: West Grand Middle School Kremmling, CO

Sponsor's Name: Katie DeBell

Category: Biomedical & Health Sciences

Division: Junior (grades 6 - 8)

Abstract (250 words or less):

The purpose of this project was to find out what surfaces in my house were the dirtiest and cleanest. I hypothesized that the microwave buttons would be the dirtiest and the coffee pot would be the cleanest. The experiment involved collecting bacteria from multiple surfaces in my house with cotton swabs, and putting the collected product into petri dishes. Then watching the bacteria grow in an extermimator. The data collected did not support my hypothesis. The microwave buttons ended up being the cleanest and the front door knob was the dirtiest. These end results really surprised me considering the microwave buttons are constantly being touched. But at the same time, the microwave buttons are visibly dirty so they are being cleaned more consistently. These findings led me to believe that the dirtiest surface out of the ones that I tested in my house was the front door knob, and the cleanest was the microwave buttons.

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.**