



# Colorado Science and Engineering Fair

## 2024 Team 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: Save Our Sandwiches

Team Leader's Name: Ainsley Lehman

Team Member 1: Jocelyn Demster

Team Member 2: Ainsley Lehman

School and City: Firestone Charter Academy, Firestone

Sponsor's Name: Jason Camahan

Category: Micro & Molecular Biology (MCRO)

Division: Junior (6th - 8th grades)

Abstract (250 words or less):

What can we do to increase the shelf life of homemade bread? We believe that wrapping the bread in plastic wrap will increase the shelf life of the bread because, based on our evidence, bread left in humid conditions will grow mold faster and the plastic wrap will keep the bread fresh or arid. First make the rolls out of yeast, water, salt, and flour. Next, wrap and spray the rolls. Throughout the experiment, we collect the data shown. With the data we collected, we would then make the data tables and the charts. With the data table, we would then write and make the conclusion, abstract, and charts. Then we would make our display board. Looking over our results, the only rolls that didn't get stale were the rolls in ziploc bags. We think that this could be because the entire roll was covered in mold, so because there was so much moisture, it didn't get stale. An observation was that the rolls that were left out in the open air got stale and the other ones were moist and did NOT get stale, but were more moldy. When looking at our results, we found that the cooking spray rolls went longer without growing mold. In the real world, you wouldn't want to spray rolls of bread with cooking spray, so the next best option would be plastic wrap. So packaging companies could plastic wrap the bread loaves to extend their shelf life.

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

Team Leader's Signature: Ainsley Lehman

Team Member 1's Signature: Jocelyn Demster

Team Member 2's Signature: Ainsley Lehman

Date: 2/22/24

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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 your Finalist Verification/Permission Form. A signed copy of this form must be included in your notebook.