



# 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: Impossible Cookie

Finalist's Name: Valeria Roman

School and City: Wiggins Middle School, Wiggins, CO

Sponsor's Name: Abigail Sanchez

Category: Chemistry (CHEM)

Division: Junior (6th - 8th grades)

Abstract (250 words or less):

Impossible Cookie

Valeria Roman

The purpose of this experiment was to determine if cookie dough from ice cream could make a cookie. I hypothesized that the Cookie Dough from the Ice creams would not be able to make a cookie, but the cookie dough from brand "Signature Select" would be the one that made the best looking cookie. I hypothesized this because the cookie dough looked a lot like the control, which was the homemade cookie dough.

The experiment involved removing all the cookie dough from the 48 oz Ice Cream container, and setting them off to the side. After all the pieces were picked out, I started my experimentation. 1 trial was performed for all of the cookie dough brands.

The data I collected did support my hypothesis. None of the cookie doughs made an ideal cookie. The Signature Select brand made the Better Cookie out of 4 brands. It made the best Cookie because it had most of the ingredients the control had, while the others lacked one or more of the macro molecules like carbohydrates, proteins, and lipids. .

These findings led me to believe that cookie dough from ice cream isn't able to create a cookie because baking the cookie dough yielded results that were completely different from the control. Analyzing the color, texture, and overall structure of the baked cookie dough helped me conclude that cookie dough from ice cream lacks one or more of the macro molecules (lipids, carbohydrates, and proteins) needed to make a perfect cookie.

*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: *Valeria Roman*

Date: *2/29/24*

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.