



# Colorado Science and Engineering Fair

## 2025 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: Squeezable C-Quantitative Analysis of Vitamin C Content in Freshly Squeezed Fruits by Titration

Team Leader's Name: Alexis Pinion

Team Member 1: Bryleigh Fox

Team Member 2:

School and City: Genoa-Hugo, Hugo

Sponsor's Name: William Mallory

Category: Biomedical & Health Sciences

Division: Senior (grades 9 - 12)

Abstract (250 words or less):

Our project was about measuring Vitamin C levels in different types of juice, specifically freshly squeezed juices. This way, there were no preservatives in the juice. We used three oranges, three grapefruits, one pineapple, and one Vitamin C tablet. We put 20 milliliters of each juice during each titration into a graduated cylinder. Then, we filled the titration with a diluted iodine solution of about 25-20 ml. We also added 10 drops of the starch solution to the juice. After that, we turned the nozzle just enough so the iodine solution dripped slowly but not too slowly or too fast. We used drops instead of pouring them into the juice because we could not have accurately recorded how many milliliters it took that type of juice to turn a dark green or dark blue color. After all three trials, we refilled the titration back to 25-20 milliliters, rinsed the graduated cylinder, and then started on the next. When we finished this experiment, we discovered that the freshly squeezed pineapple had the most Vitamin C (149.19) and took the least amount of diluted iodine to oxidize.

*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: \_\_\_\_\_

Date: \_\_\_\_\_

Team Member 1's Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Team Member 2'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 your Finalist Verification/Permission Form. **A signed copy of this form must be included in your notebook.**