



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: Testing the Hydration of Cosmetic Facemasks

Finalist's Name: Archer Rogers

School and City: Genoa-Hugo School, Hugo

Sponsor's Name: Nicolas Rogers

Category: Biomedical & Health Sciences

Division: Junior (grades 6 - 8)

Abstract (250 words or less):

Do you care about the look and feel of your skin? Then you probably know that your skin prefers to be hydrated. Dry skin often cracks, and we want to know if it actually works. In this experiment I will be testing the hydration of skin masks to see if they're worth it or not. In this project we dive deep into the science of skin and hydrogel face masks!

For the procedure I will be using a face mask and a moisture detector and determining if the face masks are worth it or not.

Apply the face mask and let it sit for ten minutes.

After fully setting for ten minutes, use the moisture detector and test the results.

Then after, record the data and you're all finished.

Then finally, have fun and be safe.

For the results, there were mixed reactions. Most skin masks moisturized the face and added lots of moisture but for some there were bad results, and their moisture went down instead. In summary, what I think happened was the mask reacted differently to other skin types or age. I did attempt to do multiple tries, but the skin moisture was final, and the moisture was lowered. One thing that is possible is the ingredients for the mask could have affected efficiency for older people because there was bamboo and aloe vera in each mask. After this experiment, I learned that some people's face masks didn't work well but most of them did.

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.**