



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: Desulfurization

Finalist's Name: Bogar Quezada

School and City: Sierra Grande High School Blanca

Sponsor's Name: Hansel Garcia

Category: Chemistry

Division: Senior (grades 9 - 12)

Abstract (250 words or less):

Abstract

My project intention was to be able to desulfurize water using limestone, a series of pipes, and filters. In the end, my project was able to desulfurize sulfur from water. Because of the simple fact that limestone is known to remove 95% of sulfur from water, I hypothesized that building 3 different pipes decreasing in diameter and limestone could desulfurize water. I poured sulfur water into the contraction multiple times. The results of what came out were graded using 3 different techniques. Using smell appearance and sulfur residue. The water began to clear up with less sulfur being noticeable and no longer being in it. The data was able to confirm that using limestone sulfur water could be changed into regular water. However, some improvements could still be made such as the use of an actual sulfur tester and not relying on appearance and smell. Additionally, the use of more rocks and other everyday objects from outside could be used. This experiment was about the use of limestone and its effectiveness to desulfur water.

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.**