



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: How nitrites affect the growth of algae

Finalist's Name: Maya Calle

School and City: aspen middle school, aspen CO

Sponsor's Name: Brandy Keleher

Category: Earth & Environmental Sciences (EAEV)

Division: Junior (6th - 8th grades)

Abstract (250 words or less):

I did an investigation as to how nitrites affect the growth of algae because I have experienced firsthand how algal blooms can destroy underwater ecosystems and I wanted to prove that fertilizer runoff is the root of the problem. There were 3 trials, each had a control and 2 dependent variables. The control didn't have any nitrites, the 1 dependent variable will have some, and the 2nd will have a bit more than the first. My experiment ran for 2 weeks and my results supported my hypothesis; if I add nitrites to a jar of 10 fl oz of water with 1/4 teaspoon of algae, then the algae will bloom more than the jar without nitrites. The algae in the control started to rot, the first dependent variable grew a little, and the 2nd dependent variable grew a lot and was thriving.

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.