



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: Lure Launcher

Finalist's Name: Parker Mitchell

School and City: Sargent Jr High, Monte Vista

Sponsor's Name: Terri Paulson

Category: Engineering (ENGR)

Division: Junior (6th - 8th grades)

Abstract (250 words or less):

The purpose of my project was to see if I could build a device that could launch a 7 gram fishing lure farther than I could cast. I built and tested three different prototypes. The first was a slingshot gun. The second was an air cannon. The third was a Chuckit! launcher. After this, I tested to see how far I could cast. I did ten trials. Then, I tested each of the prototypes ten times. After this, I analyzed my data. The air cannon was the only device that could launch the lure farther than I could cast. It could cast 2.9 meters farther than I could cast normally. This was not significantly farther than I could cast, but was further by 10%. The slingshot gun and the Chuckit! launcher could not launch the lure farther than I could cast. In conclusion, it would be better to just cast normally. However, if you have a disability or cannot cast very far my air cannon would be a very helpful tool.

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 your Finalist Verification/Permission Form. A signed copy of this form must be included in your notebook.