



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: Serving Under Pressure

Finalist's Name: Layla Mitchell

School and City: Mancos Middle School, Mancos

Sponsor's Name: Christina Evans

Category: Behavioral & Social Sciences (BEHA)

Division: Junior (6th - 8th grades)

Abstract (250 words or less):

My project is about serving in volleyball and how many points we can lose from serves based on serve percentages. My hypothesis was that 80% of serves are playable in practice while in games 70% of serves are playable. I believe this because in <https://www.blog.goldmedalsquared.com/post/how-many-serve-should-my-team-miss> it tells us about the best college teams average around 10% of serves have errors, but <https://vanguardvolleyball.com/tracking-volleyball-stats-for-improved-performance-and-progress/> talks about how it depends on the variable of serves, but a good serving percentage is between 70%-90%. I had each person do 10 serves in practice and counted how many were done in total and how many were serving errors. I then kept track of serves at games between total amount and errors. My outcome was that we served 85.6% in practice and 83.4% in games.

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: *Layla Mitchell*

Date: *7/7/24*

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.