



## 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: Hot Shot! An observational study of 5th grade boy basketball shot percentage evaluation and optimization

Finalist's Name: Benjamin Boedeker

School and City: Fort Morgan Middle School, Fort Morgan

Sponsor's Name: Heather Wright

Category: Behavioral & Social Sciences

Division: Junior (grades 6 - 8)

Abstract (250 words or less):

The goal of this observational study is to see where 5th grade boy basketball teams make the most baskets. Seven 5th grade boy basketball games were observed and recorded onto a shot map. That data was used to determine shot location and success rate. My results show that 5th grade boys basketball teams make 25.6% of shots attempted and of the shots made 70.9% are made within the paint. Total accuracy is highest in the paint at 30.3% success rate, outside the paint at 18.6%, and the lowest from the 3 point area at 17.8%. My conclusion is that 5th grade boy basketball teams have a low shooting accuracy but when shots are attempted they are most accurate within the paint. I have interpreted that 5th grade boys basketball teams need to shoot from the paint preferentially. If I were the coach, the plays would center around making the players drive to the basket because that is where they have the highest success.

*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.**