



# Colorado Science and Engineering Fair

## 2025 Team 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: Batter Up

Team Leader's Name: Braylon Einspahr

Team Member 1: Ryan May

Team Member 2: Emmett Bohnen

School and City: Stratton Middle School, Stratton

Sponsor's Name: Dannette McConnell

Category: Physics & Astronomy

Division: Junior (grades 6 - 8)

Abstract (250 words or less):

The purpose of our experiment is to inform the baseball community of which baseball performs the best. We hypothesized that the bats with composite barrels would perform better, do to the higher elasticity and "trampoline effect" on the ball compared to the alloy barrels. We took four different types of baseball bats that had alloy barrels and composite barrels and test them to see which one produced the highest exact velocity. The one piece alloy bat performed the best with about one mile per hour exit velocity then the second place bat, the three piece bat with an alloy barrel. We conclude that this happened because the the higher and more balanced weight of the bat. We think that our participant could swing it better and hit the ball with a higher force due to the heavier weight. All in all, our hypothesis was disproved.

*We hereby certify that the above statements are correct and the information provided in the Abstract is the result of one year's research. We also attest that the above properly reflects our own work.*

Team Leader's Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Team Member 1's Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Team Member 2'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.**