



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: Does Tee Height Affect Driving Distance?

Finalist's Name: Elsie Thompson

School and City: Limon High School, Limon Co

Sponsor's Name: Becky Thompson

Category: Biomedical Sciences (BMED)

Division: Senior (9th - 12th grades)

Abstract (250 words or less):

Golf is one of the most universal sports in the world. As more people join the golf community more research is being done. Many researchers have studied the "perfect swing" or different components of the game of golf, but driving at the start of each hole is the most important part of the game.

In this experiment high school competitive golfers were used to collect data. The scientist then had the golfers use their own driver, and tees for each swing. The golfers hit fifteen balls at the tee heights. The low tee height was 3 cm, the medium tee height was 5 cm, and the high tee height was 6 cm. The scientist had the participants hit the balls in a pattern so that the swings wouldn't be affected by fatigue. The experiment was done on a day with no wind, which ensured that wind did not affect the distance of the drive. Then the scientist took the data and put it into graphs to analyze the data. The scientist at the beginning expected the medium tee height to have the furthest drives by 40%. After the scientist calculated the tee heights into percentages it was proven that the high tee height was the best. The medium tee height was 18.55% better than the low. The high tee height is 5.91% better than the medium and 24.46% better than the low.

Overall this experiment showed that the highest tee height benefited the golfer's game the most.

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:

Feb 28, 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 you Finalist Verification/Permission Form. A signed copy of this form must be included in your notebook.