



# 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: Canine Response To Human Language

Finalist's Name: Sierra Allen

School and City: Genoa-Hugo, Hugo

Sponsor's Name: Mr. William Mallory

Category: Animal Sciences (ANIM)

Division: Senior (9th - 12th grades)

Abstract (250 words or less):

The purpose of understanding the canine response to the human language is to see if dogs understand the words that we say or if the dog understands our tone and body language. Dogs tend to do their commands based on body language and tone. This study hypothesizes that the dog will react similarly to a made-up word as a recognizable command. For the experimentation process, the dog was in a room with no distractions, and the dog was told a real command and then a fake word that sounded similar. This was repeated three times for four different commands. The dog had 30 minutes between commands to continue her regular day-to-day activities. The results were that the dog had the same reaction to both words on each set, meaning the dog didn't decipher the difference between the real and fake words. The conclusion did support the hypothesis. This relates to daily encounters with dogs because it proves that the dog pays attention to a person's body language and tone rather than the words used.

*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: *Sierra Allen*

Date: *2/26/2024*

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.