



# 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: Attachment Issues

Finalist's Name: Natalia Romero

School and City: Justice & Heritage Academy

Sponsor's Name: Lisa Abeyta

Category: Behavioral & Social Sciences (BEHA)

Division: Junior (6th - 8th grades)

Abstract (250 words or less):

The goal of my project was to see if a dog and sheep spend time together in a pen they will form a bond. I hypothesized if the lamb and dog are out of the pen the dog would protect all the sheep not just one. The dog most likely will not have favoritism and would just go lay down with the other dogs.

To do this project I had to catch the animals and put them in a pen so they could bond together. I checked them every 5 min for 30 seconds. When I let them out of the pen I studied their behavior for a week if possible for two weeks. The animals I chose were friendly. I think the sheep and puppy were a little bit confused at first then once connected with each other their personality made their mood the same.

I feel like the personality of the animal counts on how their reaction will be. In my case it was energetic, playful and happy. If I were to do this project differently I would put the animals in a pen where they couldn't see outside because the animals were not paying attention to each other. The sheep looked like it wanted to play at the end but was too scared of the puppy. The puppy was being playful towards me and the sheep in the middle of my trials. Their reactions were on and off from playful to being unsure the next.

*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.