## Colorado Science and Engineering Fair

## 2023 <br> 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: Do Antibacterial Cleaners Actually Work?
Finalist's Name: Selia Montoya
School and City: Ignacio Middle School, Ignacio
Sponsor's Name: Michael Montoya
Category:Micro \& Molecular Biology
Division: Junior (6th - 8th grades)
Abstract (250 words or less):
Since COVID, there have been tons of commercials and ads that identify UV cleaners as the best way to kill bacteria off of surfaces. I wanted to put those claims to the test to identify if household antibacterial cleaners are actually $99.9 \%$ effective as they claim. I will collect bacteria from two different items, a cell phone and a beverage thermos cup, place into prepared agar dishes and allow the bacteria to grow. I will collect 2 samples from each item and treat one with UV and the other will receive no treatment. I will study the results and run the UV cleaners through 5 cycles to see if the bacteria has lessened compared to the dish that was untreated.

Website: https://wssp.rutgers.edu/resources/waste
Website: PhoneSoap Founding Story

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.

