

## CALIFORNIA STATE SCIENCE FAIR 2014 PROJECT SUMMARY

Name(s) **Project Number** John C. Howell 34042 **Project Title** Is Green as Clean? **Abstract Objectives/Goals** The objective of my project is to find out if green disinfectants are as effective bacteria as regular disinfectants. Methods/Materials Five different disinfectants were used in this experiment, three greet and three non-green. The green included Clorox Green Works, Vinegar and water, and Clean Well, the non-green included Lysol, Formula 409, and Windex. Each disinfectant was spraged on a counter top with raw chicken on it then swabbed and put in an incubator. This was repeated five times and then the average area of bacteria was calculated and analyzed. **Results** I found that out of my six disinfectants, Formula 409 worked the best, but overall, green disinfectants were more effective than non-green disinfectants. **Conclusions/Discussion** My hypothesis had two parts to it. It said that Formula 400 would work the best and that chemical disinfectants would be more effective than green disinfectants. However, I found that even though Formula 409 worked the best, green disinfectants were more effective, so my hypothesis was partly correct. Information from this project informs as that we don't have to use harsh chemicals to get rid of bacteria, we can use healthier, safer products to get the job tione. Summary Statement My project is about effectiveness of "green" disinfectants versus regular disinfectants Help Received Mom helped with display board, Dad assisted with collecting samples