

CALIFORNIA STATE SCIENCE FAIR 2016 PROJECT SUMMARY

Name(s) **Project Number** Amira J. Maldonado 36555 **Project Title** Investigating the Effects of Various Cleaning Methods on Racteria **Growth on Cutting Boards Abstract Objectives/Goals** The objective of this study is to determine the effects of various cleaning method bacteria growth on cutting boards. Methods/Materials 3 cutting boards (plastic, antibacterial, wooden), 90 petri dishes, 101 sterlized swebs, bleach, dish soap, 9 pieces of raw chicken breast, water, large box, disposable plastic gloves, and face masks. Chicken swab before, wash board, swab after cleaning sterilize board, and dried board completely. The most effective cleaning solution is The best board to use is plastic it resulted in less bacteria grant bleach, it is the most effective cleaner on killing bacteria growth **Conclusions/Discussion** In this project I conducted multiple trials to determine which cleaner was the most effective on bacteria growth on cutting boards. It is concluded that plastic autting boards have the least bacteria growth. Where as bleach is the most effective cleaning solution on preventing batteria growth. This study would be beneficial for food prep industries kitchens to pro ide what would be the best products to use for cleaning. Summary Statement utting boards have less bacteria growth and bleach is the most effective cleaning solution to use on cutting boards. Help Received Parents assisted in prepping materials for experiment and preparation of board. My teacher assisted in initial steps for project.