

CALIFORNIA STATE SCIENCE FAIR 2010 PROJECT SUMMARY

Name(s)	Project Number	
Kimberly Chwalek; Elizabeth Sullivan	J2108	
Project Title Cleansers vs. Bacteria: Which Will Win?		
Objectives/Goals Abstract		
Our science fair project tested to see if kitchen cleansers and hand bacteria like they claim. Methods/Materials We tested seven different kitchen cleansers and hand sanitizers. T	d sanitizers really kill 99.9 percent of	
Lysol, Clorox, Fantastik, Windex and the hand sanitizers are Pure sanitizer. In the first experiment of our project, we cultured differ Then we treated each section with a specific product using it like product then quickly wiping. We then re-cultured each section. A number of bacterial colonies on the blood agar plates of each sect second experiment, we used each product's specified contact time sure the product stayed on the kitchen counter for its specified con section. After 48 hours we compared the bacterial colonies and n much each product killed.	ell, CVS pharmacy sanitizer, and Kroger rent sections of our kitchen counter top. people generally would, spraying the fter 48-72 hours, we compared the tion to their specific controls. In the es. We repeated the experiment but made ntact time. We then recultured each nade an estimated percentage of how	
Results Our overall results show that Lysol came in 1st, killing 90-96% o killing 20-25% of bacteria.	f bacteria, while Fantastik came in last	
Our results show that none of these kitchen cleansers or hand san killed 99.9% of bacteria. Some of these products had an advantag For instance, Clorox had a contact time of 2 minutes. Usually the product on the surface for two minutes, they quickly spray and with	itizers met their claims by saying they ge because they had longer contact times. e average person doesn't leave the ipe.	
Summary Statement		
Our project tested if kitchen cleansers and sanitizers really kill 99	9.9 percent of bacteria like they claim.	
Help Received Dr. Deb Robertson supplied us with blood agar plates and sterile culture plates.	q-tips and taught us how to innoculate	