

CALIFORNIA STATE SCIENCE FAIR 2009 PROJECT SUMMARY

	Project Number	
Hafsah A. Lakhany	J2114	
Project Title Your Carpet: The Unexpected Culprit	I	
Objectives/Goals Abstract		
The goal of my experiment was to test different types of carpets and a most bacterial growth. I believe that the antimicrobial carpet will work bacteria, followed by the stain protection carpet which will work seco bacteria. My control carpet will be least effective in arresting the grow Methods/Materials In order to conduct my experiment, I applied S. marcescens and E. col and incubated them for 48 hours. Next, I ran sterile swabs on the carpet shees which were incubated as well. I then washed the carpet sample applicators onto the carpets, and applied them onto seperate Petri dish Results For my overall result, I found that the antimicrobial carpet was most e bacteria, which proved the first part of my hypothesis correct. I also more resistant to the bacteria than the stain protection sample, thus prohypothesis incorrect. Conclusions/Discussion After conducting my experiment, I found that antimicrobial carpets do and spread of bacteria. This is due to the presence of silver and zinc ic fibers, that have natural antimicrobial qualities. However, the stain protection fibers, that have natural antimicrobial qualities. This maybe due to the top its surface to prevent stains. The control carpet which did not have an did not prove to have the most bacteria present.	k best in inhibiting the growth of nd best in inhibiting the growth of wth of bacteria. li bacteria onto the carpet samples bets, and applied them onto Petri es, streaked the sterile swab les. effective in inhibiting the growth of found that the control carpet was oving the second part of my bowrk best in stopping the growth ons, which are embedded in the rotection carpet sample did not stop pical treatments that are applied to	

Mom helped me order my materials; Hallmark and Magic Carpet Stores ordered my carpet samples; my pediatrician allowed me to dispose of the biohazard materials in his facility.