



**CALIFORNIA STATE SCIENCE FAIR
2011 PROJECT SUMMARY**

Name(s) Vanessa Prado	Project Number 31199
Project Title The Exposure of Bacteria on Shopping Crats	
Abstract Objectives/Goals My objective is to determine what type of shopping carts carry more bacteria; grocery stores or children toys stores. Methods/Materials Fifteen shopping carts where tested to determine growth of bacteria on shopping carts. Each one was tested using sterile swabs to collect bacteria colonies which then were swabbed gently onto a petri-dish. Rubber gloves where used to protect any bacteria from spreading any contamination onto the hands. Then the petri-dish was placed into a incubator for two days to see the growth of bacteria from each shopping cart. After you remove the petri-dish from incubator and count the bacteria coloneies then i disinfect each petri dish using clorox. Results The results of my experiment showed that grocery stores tend to carry more bateria onthere shopping carts than retail and children toy stores. Conclusions/Discussion From my experiment showed that grocery stores tend to carry more bacteria than retail and children toy stores. I also learned that shopping carts carry three different bacterias that can cause us to get very ill which could be harmful to our health.	
Summary Statement The growth of bacteria on shopping carts	
Help Received My mother help with the typing and a teacher help me by donating petri-dishes for my experiment	