



**CALIFORNIA STATE SCIENCE FAIR  
2004 PROJECT SUMMARY**

<b>Name(s)</b> Aaron M. Mendoza	<b>Project Number</b> <b>J1128</b>
<b>Project Title</b> <b>The Effectiveness of Different Fabric Materials in Preventing the Passage of Micro-particles?</b>	
<b>Abstract</b> <b>Objectives/Goals</b> The objective of my project is to determine which fabric material (cotton,wool,polyester,and rayon) will best withstand against harmful micro particles such as anthrax. <b>Methods/Materials</b> In my project I used several materials such as cotton,wool,rayon,and polyester. I also used black construction paper,labels,flour(micro-particles),2 ring stands,fabric loop,plexi tube,funnel,clamps,plastic cup,measuring spoon,ruler,and a calculator. I used four different materials. Each material material was tested twenty to insure better quality in the results. I then measured the diameter of the pattern which passed through the material. <b>Results</b> After my testing I found that wool held the best against the passage of micro particles, while polyester was the least effective in preventing the passage of micro particles. <b>Conclusions/Discussion</b> My results supported my hypothesis because I hypothesized that wool would hold the best against the micro particles. I believe my experiment will give knowledge to those who want to be secure against harmful micro-particles that carry diseases such as anthrax.	
<b>Summary Statement</b> My project focuses on seeing out of four fabric materials which will end up withstanding the most against micro particles.	
<b>Help Received</b> Mom helped put informatio on board,Dad helped construct experimental device,gather information on micro particles,help put up information on board,and helped all around. Ms. Young, provided equipment.	