



**CALIFORNIA STATE SCIENCE FAIR  
2003 PROJECT SUMMARY**

<b>Name(s)</b> Andrew K. Kishimoto	<b>Project Number</b> <b>J1116</b>
<b>Project Title</b> <b>Flaming Fabrics: Which Material Burns Fastest?</b>	
<b>Abstract</b> <b>Objectives/Goals</b> My project is an experiment to see how quickly different materials burn and how they burn. <b>Methods/Materials</b> After doing research I found eleven different types of fabrics. I cut each on into 3 5x15cm strips. I then took tongs and matches and lit each strip three times and timed how long it took to burn. I repeated this until all materials were tested. Safety precautions included Adult supervision, fire extinguisher and water. <b>Results</b> The loose weave dress burned the quickest. I believe that it would burn the quickest because the loose weave would let the flame have more oxygen. The Nomex shirt did not burn at all. <b>Conclusions/Discussion</b> My conclusion is that fabrics with a looser weave will burn a lot quicker than one with a really tight weave. This shows that the cost of materials such as Nomex may be a lot more than regular pants, but the Nomex is a lot safer.	
<b>Summary Statement</b> This is an experiment about which clothing material will burn the fastest?	
<b>Help Received</b> Parental supervision during the experiment dealing with fire.	