

CALIFORNIA SCIENCE & ENGINEERING FAIR 2018 PROJECT SUMMARY

Name(s)	Project Number
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	38801
Project Title	2
Measuring the Attributes of Different Fabric Weaves	
Abstract	
Objectives/Goals	
twill satin weave) and the strength stretch and fray of it. I tested by righting the	ablic for strength, putting
weights on the fabric for stretch, and fraying the fabric with sandpaper. I tested	each type of fabric 9
times, 3 along grain, 3 cross the grain, 3 diagonal grain. In the end fivill was str and plain stretched most	orgest, plain frayed most,
Methods/Materials	
I tested by ripping the fabric for strength, putting weights on the fabric for stretc	ch, and fraying the fabric
with sandpaper	
materials~ 1 yard of twill cotton, 1 yard of satin cotton, 1 yard of plain cotton, f	ishing scale, 2 spring
clamps, 1 2pound weight, drill, sandpaper.	
the tests show that twill was the strongest weave, plain freved the nost, and plain	in also stretched the most.
Conclusions/Discussion	e grain of the fabric and
the strength and stretch of it. One could possibly test this for arther research.	
Summary Statement	1.0
In this project vested to see if the weave of a fabric affected it's strength, stretcl	n, and fray.
Help Received	
Although my parent's helped me come up with the project idea. I designed and t	performed the experiment
by myself.	