

CWSF 2013 - Lethbridge, Alberta



Biography

I am Tahir Shamji, a Grade 7 student at Turnbull School in Ottawa. I was born in Laguna Beach, California and moved to Ottawa when I was 3 yrs old. I am a friendly (not scary) person who loves all sports, especially golf. During summer visits, I help my Grandfather at his menswear store in Kitchener, Ontario. He has taught me why some types of clothes are more expensive than others, based on quality. This inspired me to test the tensile strength of different fabrics and their durability after being washed/dried in different conditions. I also spent as much time on the presentation as the science ? this is really important! I'm hoping to expand my project beyond the fabric type to include the weave and the thread count. But I have to learn more about "inter-molecular forces" and "hydrogen bonding" ? which is what makes Nylon so strong. I'm really happy to be competing in the National Science Fair. I'm not too worried about winning (though it would be pretty cool), although, it would be great if I could go play a round of golf in Banff! I would totally wear my strong and durable polyester Nike shirt!

Tahir Shamji

How Strong are your Clothes?

Challenge: Resources		
Category:	Junior	
Region:	Ottawa	
City:	Ottawa, ON	
School:	Turnbull School	
Abstract:	My project determined the tear (tensile) strength of commonly used fabrics. Each fabric was put through different conditions such as washing (hot and cold), drying (tumble and air) and sunlight exposure. Each fabric was then tested to determine how much weight was required to tear the fabric. The results were analyzed to determine the strongest fabrics and the impact of	

common conditions on its durability.

Awards	Value
Excellence Award - Junior - Bronze Medal	\$100
Sponsor: Youth Science Canada	
Western University Scholarship	\$1 000
Bronze Medallist - \$1000 Entrance Scholarship	
Sponsor: Western University	
Total	\$1 100



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