

# CWSF 2013 - Lethbridge, Alberta



## Justine Hansen

### He Huffed, He Puffed

**Challenge:** Innovation

**Category:** Intermediate

**Region:** Greater Vancouver

**City:** Burnaby, BC

**School:** Burnaby North Secondary

**Abstract:** For this year's Science Fair, I studied aerodynamics and a tent's susceptibility to wind. I designed and made seven miniature tents with varying characteristics and recorded the distance each tent could be blown by a hairdryer. After collecting my data, I concluded that several variables (height, weight, base area, symmetry) could affect susceptibility to wind. I also created the best tent based on my data.

### Biography

I am passionate about science, especially human biology and anatomy. In addition to science, I enjoy solving challenging mathematics problems and was a member of the winning team in the Regional Math Challenge this spring. Reading books (like *The Count of Monte Cristo* by Dumas) and music (I play piano, violin, and guitar, and also enjoy singing in my Youth Choir) are some of my hobbies. Art is also a passionate hobby of mine, and am commonly found with a pen in my hand. I have enjoyed my experience as a participant in Science Fair and encourage any young minds to create their own fun projects. The inspiration for my science fair project came from a family friend who lost his tent to a gust of wind on the top of a mountain. I was curious to which type and design of tents would not blow away so easily.

### Awards

### Value

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