

# CWSF 2008 - Ottawa, Ontario



## Christina Noël

### Busting a Bridge: Only the Strongest Will Survive

**Division:** Health Sciences / None

**Category:** Intermediate

**Region:** Cariboo Mainline

**City:** Kamloops, BC

**School:** Sa-hali Secondary

**Abstract:** My project analyzes the forces, strengths, and weaknesses of a bridge built from 100 popsicle sticks and white glue, when it is loaded on the apex. I found that the strongest bridge spans above its deck, and the ends of a bridge are the most likely to break, because of the immense amounts of shear. My record holding weight is 1,620 lbs.

#### Biography

My name is Christina Noël, and I am a Gr.10 student at Sa-Hali Secondary School, in Kamloops, BC. At school, I am a part of Student's Council, Coordinator of a major Gr.7 student bridging event, UN Model assembly representative, peer tutee, BC Student Voice representative, and a straight "A" student. I am an active member of the Girl Guides of Canada, as a Ranger. I enjoy volunteering around my community, and spend my Saturday afternoons helping out at a senior's residence. I work part-time in an optometric clinic, and my interests include: building popsicle stick bridges, camping, and playing my trumpet, as well as sporting a slight obsession with the Harry Potter series. I have received several awards, including Math awards, best CAD student, my Canada Cord, and have been on the First Class Honors List since Gr. 8. I am also currently working on achieving my Bronze Medal in the Duke of Edinburgh Young Canadians Challenge. After High School, I hope to attend UBC, and obtain a degree in civil or structural engineering. I have participated in the Regional Science fair many times, but this is my first CWSF.

#### Awards

#### Value

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|---|--------------|
| Honourable Mention - Engineering - Intermediate<br>Sponsor: Youth Science Foundation Canada | \$100        |
| <b>Total</b>  | <b>\$100</b> |