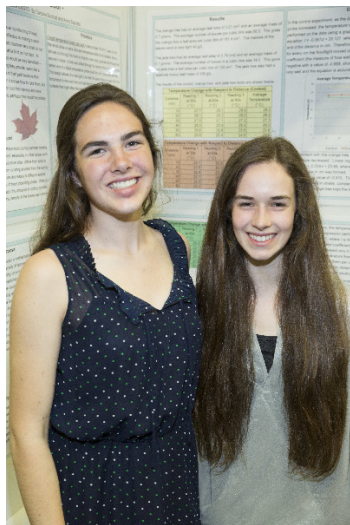


# CWSF 2014 - Windsor, Ontario



## Caroline Burchat, Anna Supryka

### Shade is Cool

**Challenge:** Environment

**Category:** Intermediate

**Region:** Quinte

**City:** Belleville, ON

**School:** Nicholson Catholic College

**Abstract:** Exploring how the depth and density of leaves on a tree affect its cooling properties. Several different experiments conducted related distance, temperature, and leaf density and leaf properties. The various plants species' densities and leaf properties were measured specifically and recorded. Mathematical equations were developed to relate each plant's ability to cool a temperature probe to the plant's overall characteristics, giving comparisons to planted trees.

### Biographies

Caroline - Hi, my name is Caroline Burchat. I'm a grade 10 student at a catholic school in Ontario. I'm always busy! At my school, I play basketball, volleyball, hockey, ski racing, track and field, rowing, and soccer. As well, I have a part time job at the grocery store. I do not have time for many hobbies. I mostly read or text friends in my free time. Out of school I play recreational hockey and I do competitive ski racing. I am the top female racer at my ski club and have placed in the top 10 out of 80+ competitors several times. I do a lot of hiking and camping with my family. I have hiked Mount Washington and the Grand Canyon with my family. I hav...

Anna - Hi, my name is Anna Supryka, and I grew up in Belleville, Ontario and am in grade 10 at a local Catholic high school. I enjoy playing sports: volleyball, tennis, basketball, and softball, just to name a few. I love both creating and viewing art/design pieces and I am very excited to begin entering my own artwork in local shows. History and culture fascinate me, and traveling to different countries even more so. I have a taste for adventure and hope that my career will take me to places around the world, hopefully helping people around the world too. I love making people laugh and seeing people happy. All in all, my career path is a mess of ma...

### Awards

### Value

Excellence Award - Intermediate - Bronze Medal Sponsor: Nuclear Waste Management Organization	\$100
Western University Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: Western University	\$1 000
Total	\$1 100