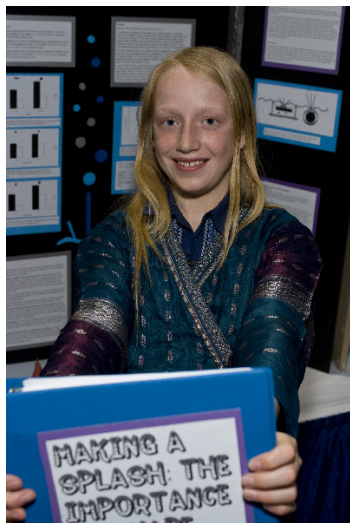


# CWSF 2010 - Peterborough, Ontario



## Kiri Daust

### Making a Splash: The Importance of Shape and Size

**Division:** Physical & Mathematical Sciences

**Category:** Junior

**Region:** Pacific Northwest

**City:** Telkwa, BC

**School:**

**Abstract:** I wanted to know if the size and shape of an object dropped into water influences the height of the splash. I made modeling clay shapes of the same mass, dropped them into the lake and videoed the splashes. Spheres made higher splashes than pancakes or cones. Size mattered for pancakes but not for spheres, and small pancakes made the highest splash.

#### Biography

I love music and science. I've participated in the Smithers science fair for five years now, and each year it's exciting. I think that science should be used to understand nature and the world around us. I play the violin, and love classical music, especially Bach. I also play in fiddle and Klezmer groups. I often use music as a way of expressing myself, and I enjoy improvising and composing. I lived the first eight years of my life in a 300 square foot log cabin on François lake two hours from town, with no running water or electricity. We now have a part time home nearer to town, but we still go to François lake, and I love living in nature. I plan to home school until university, and take either music or science. I would like to be a scientist who works out of home for a career, and also play in an orchestra and some bands. I love animals, and I think that it would be cool to have a farm, but I think that that might be just a little too much to take on.

#### Awards

#### Value

|   |         |
|---|---------|
| The University of Western Ontario Scholarship<br>Gold Medallist - \$4000 Entrance Scholarship<br>Sponsor: University of Western Ontario | \$4 000 |
| Gold Medal - Physical & Mathematical Sciences - Junior<br>Sponsor: Encana Corporation   | \$1 500 |
| Total   | \$5 500 |