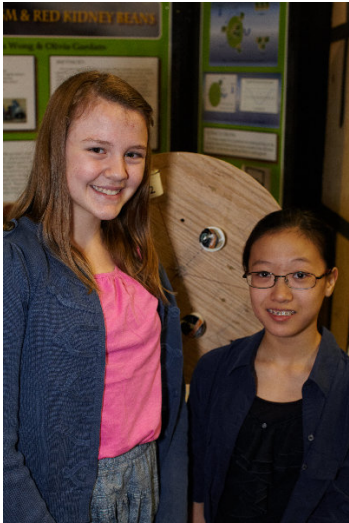


## CWSF 2012 - Charlottetown, Prince Edward Island



### Jenna Wong, Olivia Gardam

#### Geotropism and Red Kidney Beans

**Challenge:** Environment

**Category:** Junior

**Region:** Toronto

**City:** Toronto, ON

**School:** Toronto French School

**Abstract:** Our purpose was to study the effect of gravity on plants. A vertically-oriented, slow-moving wheel was used to simulate microgravity. Red kidney bean seedlings were placed in different orientations. Over a period of 9 days, plant growth and stem curvatures were measured and recorded with the aid of a time-lapse video. Our results found gravity to have a profound effect on plant growth.

#### Biographies

Jenna - Jenna Wong is a Grade 7 student at Toronto French School. She is a competitive swimmer with the Toronto Swim Club at the provincial level. She also competes for the school's gymnastics (both rhythmic & artistic), cross-country, and track & field teams. Committed to school life, she is also involved with their Classics club and percussion group. Musically inclined, she has achieved her Royal Conservatory of Music Grade 8 piano certification, and is working on her Grade 5 violin certification. In 2011, she had the privilege to receive the following awards: Gauss Math contest ? Certificate of Distinction in Grade 7, International Math Kangar...

Olivia - My name is Olivia Gardam. I am 12 years old. I was born in Toronto and have lived here my whole life. I attend the Toronto French School and am completely bilingual as my maternal family is French and my paternal family is English. One of my main interests is dance. I have been in dance competitions, participated in the youth day show on television and have won the choreography competition at my dance studio. I do charity work like donating cans to the harvest food bank. My favorite book series are the Hunger Games and reading is one of my most-liked activities. I am a vegetarian and am allergic to gluten as well. I like to write stories and ...

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