

## CWSF 2010 - Peterborough, Ontario



### Emily Pass

#### The Acid Test

**Division:** Physical & Mathematical Sciences

**Category:** Junior

**Region:** Prince Edward Island

**City:** Charlottetown, PE

**School:** Stonepark Intermediate School

**Abstract:** The objective of my research was to determine which antacid most effectively neutralized stomach acid. Measuring the change in pH of simulated stomach acid, a mixture of hydrochloric acid and water, using varying doses (0g, 0.5g, 1g, 2g, 3g and 4g) of five different antacids, and analyzing the results by fitting the data to sigmoid curves, it was concluded that Roloids was the most effective.

#### Biography

Emily Pass lives in Charlottetown, Prince Edward Island and is in the eighth grade at Stonepark Intermediate School. She is a member of the school's Farmers Helping Farmers Club, which fundraises for a twinned school in Kenya, as well as helping out in the school's library and being on the Stonepark yearbook committee. She also plays clarinet in the grade eight band, is in Late French Immersion, and was on the Honours with Distinction list for both reporting periods this year. Outside of school, Emily plays on the U-14 Provincial Ringette team, and plays soccer in the summer. In 2007, she was a finalist for the Canadian Heritage Canada Day Poster Challenge. She has participated in the Rotary Provincial Spelling Bee for the past five years, and won a first and a third place during that time. She also enjoys reading, playing video games, listening to music and hanging out with her friends. Emily loves writing, learning and science and hopes to pursue a career that allows her to do all three.

Youth Science Canada  
PO Box 297  
Pickering ON L1V 2R4  
[www.youthscience.ca](http://www.youthscience.ca) / [info@youthscience.ca](mailto:info@youthscience.ca)  
416-341-0040