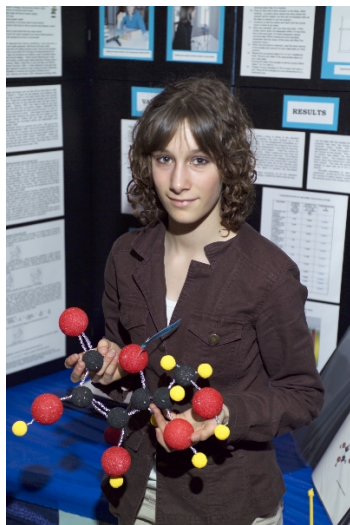


## CWSF 2006 - Saguenay, Québec



### Christina Terpstra

#### The Effect of Temperature on Ascorbic Acid

**Division:** International

**Category:** Junior

**Region:** Sudbury

**City:** Garson, ON

**School:** Northeastern E.S.

**Abstract:** This project studied the effect of temperature on ascorbic acid, a vitamin essential for collagen formation in humans. Using a titration with an iodine solution, the concentration of ascorbic acid was determined in orange juice exposed to different temperatures. The results showed that heating orange juice for 30 minutes or more decreased the concentration of ascorbic acid significantly, while cooler temperatures resulted in minimal losses.