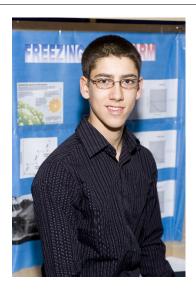




## CWSF 2010 - Peterborough, Ontario



## **Joel Karstens**

Freezing - Warm

**Division:** Health Sciences **Category:** Intermediate

Region: Northwest Saskatchewan

City: Wilkie, SK

School: McLurg High School

**Abstract:** This experiment was done to prove that the concept of latent heat can be

used to protect plants from subzero temperatures. A temperature increase was detected from using the heat from water that is in the liquid-solid phase

change to keep a plant's temperature above 0°C.

## **Biography**

My name is Joel Karstens. I am in Grade 10 at McLurg High School in Wilkie, SK. My family grain farms near Wilkie, so I have been involved with farming all my life. I currently do many things around the farm to help out, such as operating or fixing machinery and general farm work. I enjoy big game hunting and being outdoors. For the past number of years I have taken karate and guitar lessons. I enjoy athletics, participating in curling, track and field, cross country running, and football. This past year I received Rookie of the Year in football. I have maintained honour roll grades throughout my life. My favourite school subjects are industrial arts, science, and math because they apply to everyday life. I love to build things with my hands and figure out how things work. I am not completely sure what I will take for post secondary education, but I am trying to keep all doors open.





