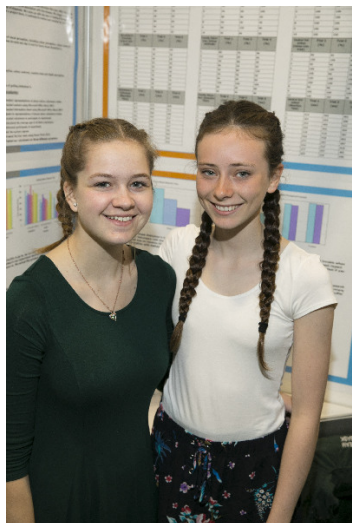


## CWSF 2017 - Regina, Saskatchewan



### Claire Larson, Leah Macfarlane

#### Alzheimer's and Visual Perception

**Challenge:** Health

**Category:** Intermediate

**Region:** Southeast Saskatchewan

**City:** Carnduff, SK

**School:** Carnduff High

**Abstract:** Our science fair's purpose was to test the affect of Alzheimer's on visual perception. We designed four assessments to test different aspects of visual problems associated with Alzheimer's. We tested ten volunteers with Alzheimer's, ten family members of them, and ten volunteers without connection to Alzheimer's. We hoped to discover a trend in genetics that could help with the process of diagnosing Early Onset Alzheimer's.

#### Biographies

Claire - I am from Carnduff Saskatchewan and am 15 years old. I attend Carnduff Education Complex and am involved in many activities around the school including, track and field, cross-country and the Student Leadership Council. I am actively involved in bowling and have attended two national tournaments representing Saskatchewan. In the future, I hope to attend the University of Saskatchewan to accomplish my dream of becoming a registered nurse. My partner and I got the inspiration for our project from my family history and her colour blindness. We wish to continue our experiment by collecting more data.

Leah - My name is Leah Macfarlane. I live in Carnduff, Saskatchewan and attend school at Carnduff Education Complex. I am actively involved in different school sports such as volleyball, track, and cross-country. This past October I attended cross-country provincials and finished tenth. I also play piano and violin and have completed up to grade nine RCM in piano and grade three RCM in violin. I was also the recipient of the Grade One Violin Saskatchewan Gold Medal. In the future I plan to attend post-secondary education and finish a degree in English Language Arts. We were inspired for our project by the Alzheimer's my partner's family along with m...

#### Awards

#### Value

Excellence Award - Intermediate - Bronze Medal Sponsor: Youth Science Canada	
Western University Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: Western University	\$1 000
Total	\$1 000