

CWSF 2014 - Windsor, Ontario



Dayna Rachkowski, Hailey Mackenzie

Aquaponics

Challenge: Resources

Category: Junior

Region: Sudbury

City: Sudbury, ON

School: Marymount Academy

Abstract: Our experiment consisted of comparing the growth rate between plants grown in a traditional gardening setting, to an aquaponics system. Aquaponics system deals with the relationship between growing plants using nutrients provided by the fish. Over the course of 20 days, we observed the benefits of each system, and how they could change the face of agriculture in the future.

Biographies

Dayna - My name is Dayna Rachkowski, and my partner and I both attend Marymount Academy. I am 14 years old, and my interests include, horses, sports, and music. I participate in 10 school extra curricular activities, as well as being chosen to be in the reach ahead program for english. My partner and I are interested in continuing to investigate aquaponics, to see if it affects a fish's life span, as well as identifying a plant to fish ratio for the system. To other students who think they may want to do a project, I say go for it! Knowledge and science can be so fascinating, so pick something you're interested in and learn! Do a project with a frien...

Hailey - My name is Hailey Mackenzie, I am 14 years old at Marymount Academy in Sudbury Ontario. For my project my partner and I built an aquaponics system (a system that combines aquaculture and hydroponics, by harvesting fish whilst using their nutrients to grow plants.) and compared it to traditional gardening to see which form of agriculture is more efficient. The inspiration for this project originally came from our common fondness for animals. When we came across the aquaponics system we were intrigued and wanted to further understand its capabilities, we especially wanted to know if it was a better form of agriculture than traditional gardening b...

Awards

Value

Challenge Award - Resources - Junior Sponsor: Youth Science Canada	\$500
Total	\$500