



## CWSF 2019 - Fredericton, New Brunswick



## **Daniel Kornylo**

## The Development of a Research Tool to Improve Snake Husbandry

Challenge: Innovation
Category: Intermediate

Region: Northern Vancouver Island

City: Gold River, BC

**School:** Gold River Secondary

**Abstract:** The goal of this project is the design and construction of a snake vivarium

that improves upon commercially available models and provides a means of creating a list of parameters that can be used to develop clear guidelines for the welfare of captive snakes. This device takes a novel approach to heating, ventilation, and lighting with the goal of eliminating thermal burns

and respiratory illnesses.

## **Biography**

My name is Daniel Kornylo. I am a science enthusiast, a figure skater, and a grade 10 student at Gold River Secondary School. I have a younger sister named Heather, and I live in a remote location on Vancouver Island. This year, I had the honour of being selected to take part in the RCMP National Youth Advisory Committee. We discuss a wide range of issues from social media and technology to mental health. My project will help my sister with a future science fair experiment involving corn snakes. Initially, it began as a simple request to build a vivarium but quickly became more complicated as I learned about the many issues with current technology. It soon became clear to me that the development of a research tool was necessary. This tool should allow for data collection that would lead to scientifically based parameters for snake husbandry. This will be my third time competing at the Canada Wide Science Fair; for me, it is a source of continual inspiration. My advice to students doing a science fair project is to try to solve a problem that you see in our world. Sometimes it is tough but never give up.

Awards	Value
Excellence Award - Intermediate - Gold Medal	
Sponsor: Youth Science Canada	
Western University Scholarship	\$4 000
Gold Medallist - \$4000 Entrance Scholarship	
Sponsor: Western University	
Total	\$4 000





