



## CWSF 2016 - Montreal, Quebec



## Biography

My name is Stephanie Miller and I am a grade 10 student. I am very athletic as I do gymnastics and play tennis. Furthermore, I became a member of team Nova Scotia for gymnastics in 2015. In addition to sports, I am also musical, as I play the piano. In the past, I have also played the guitar, flute and piccolo. Reading is also a passion of mine. Finding an idea for a science fair project is likely the most difficult part. By watching the news and reading articles on droughts around the world, I was inspired to do this science fair project. These news reports led to more research on topics that would soon play a part in the creation of my system. For my science fair project, I designed and tested a solar-powered hydroponic growth system, which provides an alternate method to crop growth in drought-affected climates. To take this investigation further, I would grow crops that have a greater economical value, and reduce the physical space required for the system. If other students were to do a project, I would advise them to do something that will provide, or lead, to a solution to an ongoing problem.

## **Stephanie Miller**

## Four Minimums with One Maximum

Challanger	Innovation
challenge.	Innovation
Category:	Intermediate
Region:	Cape Breton
City:	Sydney, NS
School:	Riverview High School
Abstract:	Hydroponics is a method of gr
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	that requires minimal space, w

**:ract:** Hydroponics is a method of growing plants without using soil. The objective of this project is to see if it is possible to develop a solar-powered system that requires minimal space, water, cost and maintenance while still producing a substantial crop. Throughout the experiment, the amount of work involved, the volume of water used, as well as the productivity of the crop was observed.



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