

# CWSF 2016 - Montreal, Quebec



## Colette Reimer

### Fuel Vapour: An enhanced method for fuel efficiency

**Challenge:** Energy

**Category:** Intermediate

**Region:** Vancouver Island

**City:** Victoria, BC

**School:** St Margaret's

**Abstract:** My project was to demonstrate if an engine could run on fuel vapor alone. I hypothesized that if an engine can run on fuel vapour alone, than the engine could run more fuel efficient, and with less emissions. After completing several, tests I proved my hypothesis to be true, and my results showed fuel vapor to be a minimum of 25% more efficient.

#### Biography

My name is Colette Reimer, and I am a Grade 9 student at St. Margaret's school in Victoria, British Columbia. For my project I designed a system that allowed a small engine to run on fuel vapor alone. I tested if the system would allow the small engine to run for a longer period of time. If I were to do this experiment again I would like to test larger engines running on more power. This project interested me, as I will soon be sixteen, and I know that gas can be very costly when driving. Not only am I very passionate about science, but I have also been involved in competitive triathlon for over 3 years. This year I am excited to have received a spot to travel to the 2016 B.C. Summer Games for triathlon. After I finish Grade 12, I am interested in continuing my education in health-sciences. One of the jobs I am attracted to is becoming a nurse anesthesiologist. The advice I would give to students doing a science fair project would be to pick a topic you are interested in, as it makes the experience more valuable.

#### 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