

## CWSF 2011 - Toronto, Ontario



### Kendelle Anstey

#### The Implement to Reduce Carbon Emissions

**Challenge:** Environment

**Category:** Senior

**Region:** Eastern Newfoundland

**City:** St. John's, NL

**School:** Holy Heart High School

**Abstract:** With rising amounts of anthropogenic emissions, the reaction of sodium hydroxide (NaOH) and carbon dioxide (CO<sub>2</sub>) is investigated for its use on a reaction chamber attached to a vehicle. It was found that a model that is 17.1 L big used for a small engine can be 100% efficient, and twice that for an 8-cylinder engine vehicle used.

#### Biography

Kendelle Anstey. I'm from St. John's Newfoundland. I enjoy art as well as all sciences, particularly chemistry and physics. I have a strong passion for the environment from a very young age and I set a lot of ambitious goals for myself with this passion. I take part in many activities within my community such as the cadet program where I've been dedicated for seven years now and I am apart of the cadet band as a glock player and band petty officer, as well as this years drill team commander. Apart from cadets I take part in biathlon, choir, science and environmental club and also take initiatives within my community such as recycling drives and various volunteer work. This year I've also been fundraising for the Students on Ice expedition and have raised 8000\$. As a youth learning and developing, I take on a lot of goals and I hope to one day be an environmental engineer and create sustainable methods between us and our environment.

Youth Science Canada  
PO Box 297  
Pickering ON L1V 2R4  
[www.youthscience.ca](http://www.youthscience.ca) / [info@youthscience.ca](mailto:info@youthscience.ca)  
416-341-0040