

## CWSF 2010 - Peterborough, Ontario



### Alexa Dobie, Karli Jones

#### How Sweet It Is

**Division:** Earth & Environmental Sciences

**Category:** Senior

**Region:** Fraser Valley

**City:** Abbotsford, BC

**School:** Yale Secondary, Robert Bateman Secondary

**Abstract:** The project studied the effects of the sweetener stevia on the growth of various bacteria. We used saliva samples from participants and three specific bacteria types to observe how stevia could inhibit the growth of bacteria. In the final stage of the project, we attempted to integrate stevia into a toothpaste to see if it would be an effective bacterial inhibitor in a commercial product.

#### Biographies

Alexa - Alexa is in her grade 12 year, planning to pursue a Bachelor of Sciences Degree next year with a major in Biology. She is an avid hockey player on the local female team and teaches swimming with the Abbotsford Whalers Swim Club. Alexa is an honour roll student who maintains a 95% average and challenged herself by taking exams in AP Biology, Chemistry, and English.

Karli - I am 17 years old and a student at Robert Bateman Secondary School. Following graduation, I plan to attend the University of the Fraser Valley to obtain a Bachelor of Science/Mathematics Degree. My goal is to pursue a career in science or mathematics. I have been involved in many community sports and activities. I started swimming at a young age and developed a passion for the sport very quickly. I have been involved with the Abbotsford Whalers Swim Club for nine years. In 2004, I received the Most Improved Female Swimmer Award, and in 2008 and 2009, the Diligence Award. For many years I volunteered for the Abbotsford Whalers as a Junior Coac...