

## CWSF 2011 - Toronto, Ontario



### Alice Wang, Jeannie Xu

#### Battling Bacteria With Essential Oils

**Challenge:** Health

**Category:** Senior

**Region:** Toronto

**City:** Toronto, ON

**School:** University of Toronto Schools

**Abstract:** Public surfaces are sources of bacteria. In this experiment we tested five different essential oils which are known for their antibacterial properties against bacterial cultures sampled from different public surfaces. We discovered that clove and cinnamon essential oils are a commercially viable alternative to chemical disinfectants which pose health risks.

#### Biographies

Alice - I'm a grade 11 student at University of Toronto Schools who possesses a variety of interests and passions. I love taking interesting and stimulating courses that challenge me and force me to think in a different ways. I believe that you should always enjoy what you do and always strive for a purpose. I take part in various extracurricular activities in and out of school and my hobbies include playing volleyball and watching TV. In the future, a career in science is a definite possibility.

Jeannie - Hi, I'm Jeannie and I am a grade 11 student at the University of Toronto Schools. I am a part of the Classics Society which celebrates Ancient Roman and Greek culture and every year we compete in the Ontario Student Classics Conference. I play on the school volleyball and badminton team. I am a part of the Nutritional Science Mentorship Program at University of Toronto and we research the connections of snacking habits on our health. This past summer I attended Shad Valley at the University of Waterloo which was a great challenging experience. In my spare time, I love to draw and hang out with friends and family.

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