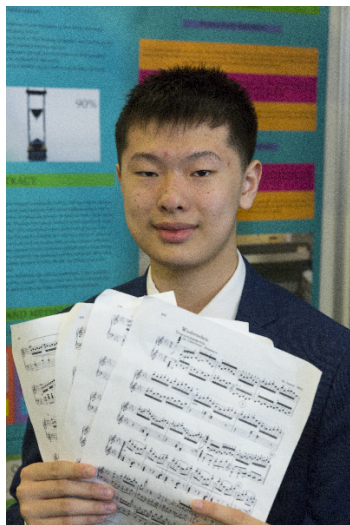


## CWSF 2018 - Ottawa, Ontario



### James Fang

#### Plant Absorption of Indoor Pollutants

**Challenge:** Environment

**Category:** Intermediate

**Region:** Fraser Valley

**City:** Surrey, BC

**School:** Elgin Park Secondary

**Abstract:** This project experiments on two different types of plants: Club Moss and Maidenhair Vine, on three different types of indoor pollutants (formaldehyde, acetone, and toluene), over a period of three weeks. An analysis of organic content, moisture content and soil pH of the soil near the roots is completed. Results indicate 95-98% removal for acetone, >99.5% removal for formaldehyde, and 75-85% removal for toluene.

#### Biography

Hello! I am James, a Gr.9 student at Elgin Park Secondary. I chose this project because I previously had respiratory problems while living in China. In the future, I would run more experiments, using different conditions or different chemicals. I plan to study biomedical engineering after graduating from high school. Outside of Science Fairs, I am a piano, Model UN, and travel enthusiast. To create a successful science fair project, I believe a positive attitude is the most important factor because, with a positive attitude, there will be people who would like to help you. Remember, it is all about being the best person that you can be.