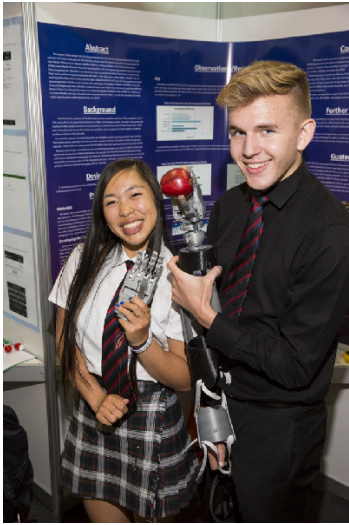


## CWSF 2015 - Fredericton, New Brunswick



### Andrea Chan, Matt Treble

#### Get a Grip: Low Cost Solutions to Improve Grip for 3D Printed Prosthetic Hands

**Challenge:** Innovation

**Category:** Senior

**Region:** Vancouver Island

**City:** Victoria, BC

**School:** St Michaels University School - Senior, Lambrick Park Secondary

**Abstract:** Prosthetic hand gloves that are ideal aesthetically, are of good quality, and well functioning can be very expensive and thus are not easily accessible to many people. The goal of this project is to test different plastics to find a cheap, improved grip, and colourable solution for improving grip for 3D printed prosthetic arms.

#### Biographies

Andrea - My name is Andrea Chan and I am a Grade twelve student at St. Michaels University School. The past three years, my partner Matt and I worked on projects related to psychology. This year, we were inspired to try a different area so we tackled an engineering project. Our project focuses on prosthetic hand gloves and 3D printed prosthetic arms. Because both the prosthetic glove and arm can be very expensive, the goal of this project is to test different plastics that could be used to make a glove that is inexpensive, colourable, and improves the grip strength for 3D printed prosthetic arms. Aside from getting a grip on this new project, I have b...

Matt - My name is Matt Treble and I am a Grade 12 student from Lambrick Park Secondary School in Victoria, BC. For our science project this year, my partner Andrea Chan and I investigated low-cost plastics that could be used to develop fingertip gloves with improved grip for 3D printed prosthetic hands. This will be my fourth time attending the Canada Wide Science Fair, and I am super excited to get the chance to be a part of Team Vancouver Island once again! When I'm not working on science fair projects, I am actively involved in organizing school and community events, the biggest of which being a Youth Pride Conference I co-organized for youth o...

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