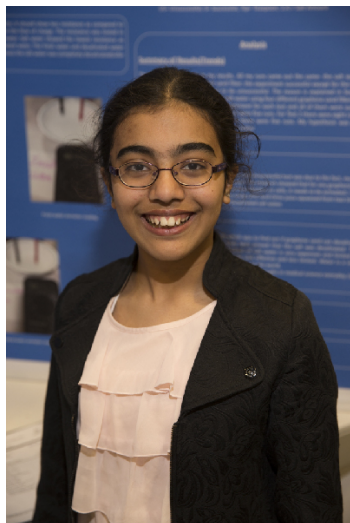


## CWSF 2016 - Montreal, Quebec



### Syni Solanki

#### Graphene Sand Desalinator

**Challenge:** Innovation

**Category:** Junior

**Region:** Niagara

**City:** Grimsby, ON

**School:** Ridley College

**Abstract:** Water is everywhere, but is it fresh? 1/3 of the world's population does not have access to clean drinking water, so I attempted to find a cheap and efficient method to bring fresh water to everyone in the world. The purpose of the experiment was to find out if graphene sand could desalinate salt water.

#### Biography

Syni Solanki is a Grade 7 student in Ridley College, St. Catharines, Ontario. Syni is 12 years old and loves math and science and wishes to pursue a career in a science related fields. She is on the tennis team in Ridley and plays tennis outside of school as well. She volunteers as a primary lunch helper in school and an altar server at her parish, Immaculate Heart of Mary. Syni plays the clarinet and piano and does dance. Syni's hobby is reading and her favorite book is Dark Tide from the Waterfire Saga series. Syni got the inspiration for her project after watching a CNN News show about graphene one morning. She then watched another show about water scarcity and realized that graphene could potentially be the solution to that issue so she decided to make a graphene sand desalinator that could bring fresh water to everyone in the world. Her plans for future investigations are patenting her innovation and making it more better. Advice that she would give other students who are thinking about doing a project is "don't worry about what people will say. Just trust your instincts and do what you are passionate about."

#### Awards

#### Value

Excellence Award - Junior - Bronze Medal Sponsor: Youth Science Canada	
Western University Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: Western University	\$1 000
Total	\$1 000