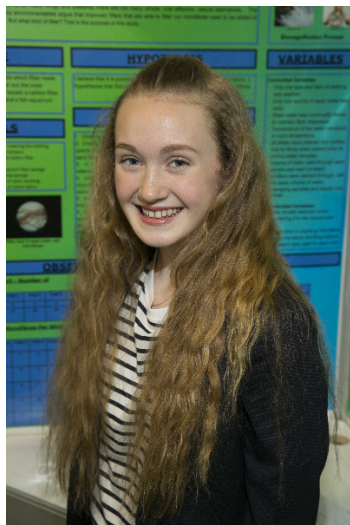


# CWSF 2017 - Regina, Saskatchewan



## Clara Biernacki

### Are You Eating Your Fleece? Exploring Microfibres and Filtration Systems

**Challenge:** Environment

**Category:** Junior

**Region:** Renfrew County

**City:** Pembroke, ON

**School:** Highview P.S.

**Abstract:** When synthetic fabrics are washed, thousands of microscopic microfibres break off and enter our waterways. Through the process of biomagnification, these microfibres enter our food chain and cause negative, lasting effects. I examine the efficacy of different types of filters, made from several household items, in removing microfibers from wash water.

#### Biography

Hi, I'm Clara. I'm 13 years old, in Grade Seven French Immersion, at Highview Public School, Pembroke, ON. My favourite subjects are Math, Science, Phys. Ed., and Art. I love learning about environmental science and space. I also love being active. I participate in every sport offered at school! Outside of school I also play competitive soccer, race triathlons, cross-country ski, row, and play piano! However, I spend most of my time DANCING! I'm a competitive dancer in all styles of dance. I also love acting and participate in community theatre. Last year I was part of an improv team that competed at Destination Imagination, Global Finals in Tennessee. I was inspired to study the effects of microfibres and possible ways to filter them out of our wastewater after reading an article about how my yoga pants were killing the planet! I'd like to further explore other possible microfibre filters, and how to best implement a filtering process in your home and wastewater treatment plants. I'd also like to lobby different levels of government to support improved quality of wastewater being dispersed back into our waterways. My advice to other students is to pick a project that they're passionate about!

#### Awards

#### Value

Excellence Award - Junior - Silver Medal Sponsor: Youth Science Canada	
Western University Scholarship Silver Medallist - \$2000 Entrance Scholarship Sponsor: Western University	\$2 000
<b>Total</b>	<b>\$2 000</b>