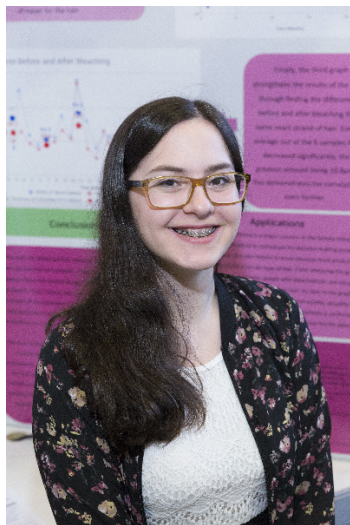


## CWSF 2018 - Ottawa, Ontario



### Taylor Smith

#### The Wear and Tear of Bleach Dyed Hair

**Challenge:** Health

**Category:** Senior

**Region:** Strait

**City:** Antigonish, NS

**School:** Dr. John Hugh Gillis Regional School

**Abstract:** This project will investigate the correlation between bleaching hair and the resultant thickness of the strands using single-slit diffraction. With background research, it was hypothesized that bleached hair would be thinner than natural hair, and dependent on time. By testing samples of natural and bleach-dyed hair, the hypothesis was confirmed. The data collected demonstrates a strong correlation between hair thickness and using bleach products.

#### Biography

My name is Taylor Smith and I am a grade 12 student at Dr. John Hugh Gillis Regional High School in Antigonish, Nova Scotia. I am a member of the student council as the head of the showcase committee. I also play the French Horn in my school band, and have taken private piano lessons for 10 years. I am passionate about both music and science and intend to continue studies in both throughout my life. In September, I plan to attend St. Francis Xavier University in Nova Scotia for a Bachelor of Science in Psychology, then eventually move on to psychiatry in medical school once I get my degree.