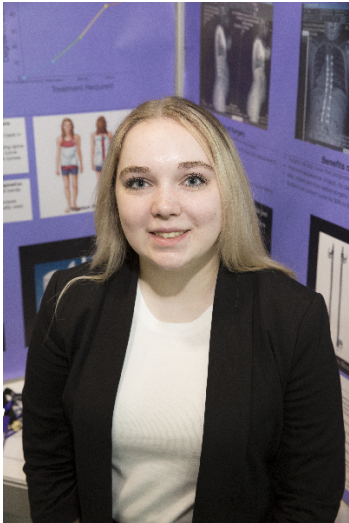


CWSF 2019 - Fredericton, New Brunswick



Sophia Collins

Scoliosis Treatment and Rod Study

Challenge: Health

Category: Intermediate

Region: Chignecto West

City: Elmsdale, NS

School: Hants East Rural High School

Abstract: My project is a study on the condition Scoliosis and the different treatment options out there. Through my research, and personal experience I have attempted to come up with a design for an improved rod for Scoliosis surgeries. This condition is very common and better treatment options need to be looked into by everyone.

Biography

My name is Sophia Collins and I'm from Nova Scotia. I go to Hants East Rural High and I love all science, math and history classes. I'm involved in the music club and quite a few other activities. All the time I am not spending on science, I'm either playing guitar/other instruments or drawing. I believe a good balance of art and science is what makes me so successful and happy. Once I graduate high school, I am planning on becoming an orthopaedic surgeon because the medical field is my main interest. The inspiration for my project was the fact that when I was 11 years old, I was diagnosed with scoliosis. About 8 months later I got spinal fusion surgery to treat it. This caused me to lose about five inches of height leaving me at 5ft. I plan on designing and carrying out an experiment to test if a telescopic rod for the surgery would allow for a few more inches of growth. This is my first science fair but I am already so excited it, and would recommend it to anyone. I would definitely recommend putting in the effort but also just having fun!