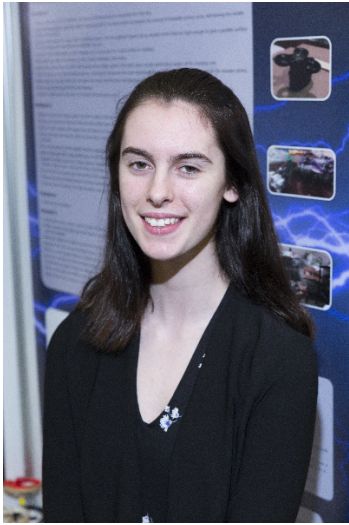


# CWSF 2018 - Ottawa, Ontario



## Angie Redford

### Fidget Spinners: A Charged Topic

**Challenge:** Innovation

**Category:** Intermediate

**Region:** Sunset Country

**City:** Fort Frances, ON

**School:** Fort Frances H.S.

**Abstract:** This project attempted to determine if same power producing principals found in wind turbines could be applied to a traditional fidget spinner. A series of prototypes were designed and developed to attempt to produce enough power to charge an LED light.

#### Biography

Angie Redford is a grade 10 student at Fort Frances High School. She is 16 years old and is a sports enthusiast. She currently participates in figure skating, basketball, skiing, track and field, and this year made it to OFSAA for skiing. She also enjoys playing the saxophone and the piano. The inspiration for this project came from watching people play with Fidget Spinners and wondering if there was any possible way to harness all that wasted energy.

#### Awards

#### Value

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