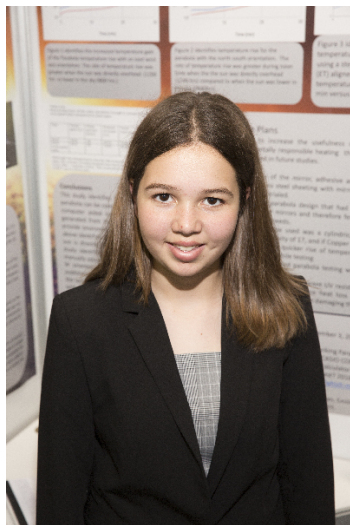


# CWSF 2019 - Fredericton, New Brunswick



## Maggie Hollett

### Sunny Side Up

**Challenge:** Energy

**Category:** Junior

**Region:** Quinte

**City:** Plainfield, ON

**School:** Queen Elizabeth P.S.

**Abstract:** The goal of this study is to try and optimize the design and manufacture of an inexpensive parabolic solar water heater which could easily be used to heat water for general household uses. This design allows for water heating with fewer pipes and connections compared to other solar heating designs.

### Biography

My name is Maggie Hollett and I am in Grade 8. I have always had an interest in science. When the solar power heating system for our swimming pool broke, I was interested in finding an alternate way to heat our pool. I discovered the parabolic solar trough and wondered if I could use that technology at home. My dad and I set out to build our own parabolic solar trough. I have tested the trough with good results! I would like to try and see if the trough we developed could heat an area the size of our swimming pool. My advice to other students would be to use science to help in their everyday lives. To take a chance and discover how science can help them or others!

### Awards

### Value

|   |              |
|---|--------------|
| Intact Climate Change Resilience Award - Junior | \$500        |
| Sponsor: Intact Financial Corporation           |              |
| <b>Total</b>                                    | <b>\$500</b> |