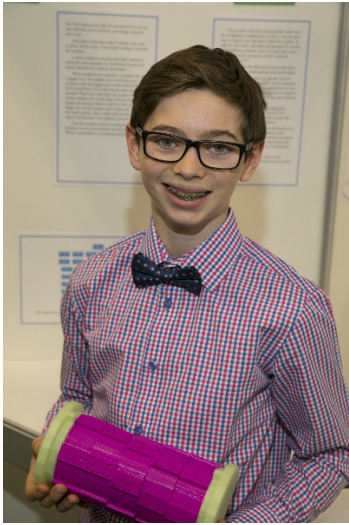


## CWSF 2017 - Regina, Saskatchewan



### William Carmichael

#### The Cryptex

**Challenge:** Innovation

**Category:** Junior

**Region:** River Valley

**City:** Hanwell, NB

**School:** George Street Middle School

**Abstract:** The cryptex is a locked container that looks and works like a bicycle lock: you align the dials to open it. Usually, a cryptex can only be opened by inserting a word or a series of numbers, but my cryptex is like a puzzle. On the dials there are fractions, percentages and decimals. To solve it, you must align the equivalent numbers.

#### Biography

I am twelve years old and attend George Street Middle School, in Fredericton, New Brunswick. I am currently on the school junior varsity volleyball team. I am also a competitive gymnast who is representing New Brunswick in the Eastern Canadian Gymnastics Championships. In my spare time, I enjoy downhill and cross country skiing, mountain biking, doing puzzles and reading.

Youth Science Canada  
PO Box 297  
Pickering ON L1V 2R4  
[www.youthscience.ca](http://www.youthscience.ca) / [info@youthscience.ca](mailto:info@youthscience.ca)  
416-341-0040