

## CWSF 2017 - Regina, Saskatchewan



### Oscar Zingle

#### De-Inventing the Wheel

**Challenge:** Innovation

**Category:** Junior

**Region:** Greater Vancouver

**City:** Vancouver, BC

**School:** Sir William Osler Elementary

**Abstract:** Through the evolution of trains, wheels have always been used to move, until the birth of maglevs - trains that float on magnetic force and travel at 600 km/h and above. Maglev systems cost up to \$43,000,000 per kilometre. This study is devoted to finding a cheaper way to build maglev systems and to make them available to the mainstream.

#### Biography

Oscar Zingle is a grade seven student from Vancouver, BC, who is interested in programming, technology and engineering. He enjoys reading fact-based and informational books, and his inspiration for his project came out of one such book. The book stated that floating trains (maglevs) would be used for transportation in the future. More research in this area showed that the technology would be too expensive to be readily available around the world, so Oscar started looking at alternatives to the expensive system components, eventually constructing a balancing test bed. In the future he would like to add filters to improve control, and then extend his test bed to a more practical application. He believes maglevs could be the Eco-friendly transportation of the future.

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