

CWSF 2014 - Windsor, Ontario



Liam McKenna

Bicycle Physics: What Gear?

Challenge: Discovery

Category: Junior

Region: Renfrew County

City: Deep River, ON

School: St. Mary's E.S.

Abstract: An investigation into the history, purpose and benefit of Bicycle Gears through an experimental program that tested different: riders, bicycles and cadences. The testing program determined that both bicycle speed could be mathematically calculated and optimal shifting strategies for gear selection, can be chosen for any bicycle.

Biography

Liam Gary Robert McKenna was born in February 2000 in Nottingham, England. Since then, he has lived in 3 different time zones. He is the youngest of three boys and has travelled on three different continents including a safari in South Africa. He currently resides in Deep River, ON and attends St. Mary's School as a Grade 8 student. He was home schooled for the first 3 years of his education and for 2 years Liam attended a Provincial Demonstration Boarding School in Belleville, Ontario because of a learning disability with reading. The inspiration for the project came from the purchase of his new bike and the hours long discussions he and his father had canoeing the Rideau Canal last summer. Both of Liam's older brothers are CWSF Alumni and he is a competitive swimmer.