

CWSF 2015 - Fredericton, New Brunswick



Luke Hepworth

Hi-Yah!

Challenge: Discovery

Category: Junior

Region: Northern Saskatchewan

City: Air Ronge, SK

School: Churchill Composite H.S.

Abstract: This project is about measuring which kick in martial arts will create the most force. I measure each kick ten times for each age group and then I use a formula that calculates the force in Joules. My interest in martial arts inspired this project.

Biography

I was inspired to do this project because I love martial arts and practice it. I was also wondering which kick would be the safest to use during a martial arts fight by determining the strengths of various kicks. I would want to force the opponent away and regenerate to get ready for the next move. In the future, I wish to record more data on which kick creates the most force using a device that measures force more accurately. I would use the same age groups as I used in the first attempt. For other students thinking about a project, my advice would be to do multiple tests on their project and to always choose a project on something that they are really interested in and like to do in everyday life.