

CWSF 2012 - Charlottetown, Prince Edward Island



Christian Au

BBs: Ballistics gone Bio

Challenge: Discovery

Category: Junior

Region: Rideau-St. Lawrence

City: Mallorytown, ON

School: St. Lawrence Academy

Abstract: My project examined if biodegradable ball bearings (BB's) had more precise groups than regular BB's when fired from an Airsoft gun. After measuring the mass and diameter of seven types of BB's, a gun stand and computer analysis were used to measure muzzle velocity and precision of BB's fired indoors at various distances. Biodegradable BB's were found to be less precise than the regular ones.

Biography

I am in grade 7, attending a private school located in Prescott, Ontario. I am interested in Math. Some of my hobbies include: playing Airsoft, playing video games, playing piano, and drawing comics. In the future, I plan on programming computers and video games. My friends think that I am funny and smart. One day while playing Airsoft, I wanted to see if there was a difference as far as accuracy and precision between biodegradable BB's and regular BB's. If I were to expand on this project, I would test additional types of BB's and different types of Airsoft guns such as spring and CO2 powered guns. For anybody doing a science project, I would suggest starting early into summer, planning and doing research before school starts. Also if testing is needed during different types of weather/ temperature, I would suggest taking advantage of the warm summer climate or the cold winter climate. I found science projects very challenging. However, if you have determination and perseverance then you will be able to conquer this challenge.

Awards

Value

Excellence Award - Junior - Gold Medal Sponsor: Youth Science Canada	\$1 500
Western University Scholarship Gold Medallist - \$4000 Entrance Scholarship Sponsor: Western University	\$4 000
Total	\$5 500