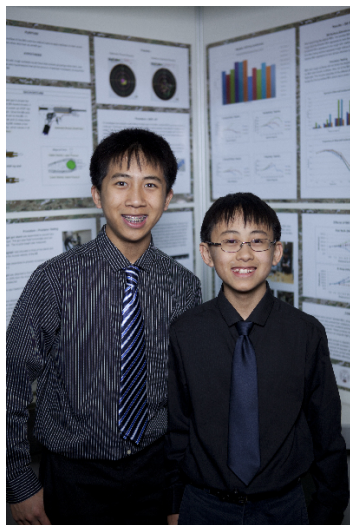


CWSF 2013 - Lethbridge, Alberta



Adrian Au, Christian Au

Hit Me With Your Best Shot

Challenge: Discovery

Category: Intermediate

Region: Rideau-St. Lawrence

City: Front of Yonge, ON, Mallorytown, ON

School: Brockville Collegiate Institute, St. Lawrence Academy

Abstract: Airsoft guns use compressed gas to fire 6mm plastic BB's. The effects of backspin and surface alterations on the BB's were studied to observe their impact on flight path and precision. It was hypothesized that more backspin would increase the range and precision of the BB while smoother-surfaced BB's would be more precise. The application of these findings to the sport of Airsoft was discussed.

Biographies

Adrian - I am 15 years old and in grade 10 at the Brockville Collegiate Institute (BCI) in Brockville, Ontario. In my spare time, I enjoy building electrical circuits and constructing mechanical and robotic devices. Physics is something that fascinates me and I hope to get a better understanding of it throughout my school career. I play the piano at home and play the clarinet in my school concert band. I enjoy all my different classes at school, especially math and science. When I go to university I plan to take mechanical engineering. This is my fourth time attending a CWSF. I have an honourable mention, a silver medal, and a bronze medal from my pre...

Christian - I am in grade 8, attending The St. Lawrence Academy in Prescott, Ontario. I am interested in Math. Some of my hobbies include: playing Airsoft, playing video games, and playing the piano. In the future, I plan on programming computers. In 2012 I won a gold medal at the Canada-Wide Science Fair. One day while playing Airsoft, I wanted to see if there was a difference as far as accuracy and precision between types of surfaces on BB's. My brother was interested in studying the effects of backspin on ballistics. We decided to work together since both of our ideas relate to the same sport- mine focusing on the ammunition, his focusing on the weapo...

Awards

Value

Excellence Award - Intermediate - Bronze Medal Sponsor: Youth Science Canada	\$100
Western University Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: Western University	\$1 000
Total	\$1 100