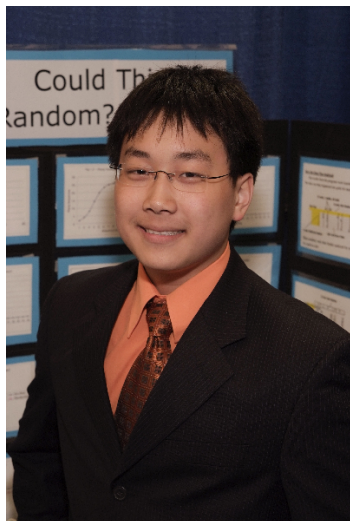


# CWSF 2007 - Truro, Nova Scotia



## Eddie Kim

### Could This be Random? Probably!

**Division:** International / None

**Category:** Intermediate

**Region:** Waterloo-Wellington

**City:** New Dundee, ON

**School:** Cameron Heights C.I.

**Abstract:** I wrote computer programs to investigate how shuffled decks approached randomness. The programs tested decks with riffle shuffles compared against random re-orderings. Statistical analysis of the decks revealed that it took three shuffles to have the majority of cards equally likely to appear in any location, whereas it took seven shuffles to have the majority of deck combinations equally likely.

### Biography

My name is Eddie Kim. I am 14 years old, and I currently attend the Cameron Heights Collegiate Institute IB program. In school, I am involved in a number of activities, namely, the Debate team and Intermediate Band (I play the flute). I don't live directly in Kitchener-Waterloo, so I don't often have a chance to help out around the community. However, I do enjoy volunteering when there is a chess-related event going on, as chess is one of my hobbies. I am also a fan of the card game "Magic: The Gathering." My other main hobby is Tae Kwon Do, in which I am currently a senior red-blue belt. Throughout high school, I plan to study computers, all three strands of science, and math. However, I am currently unsure of any plans for post-school life. All I know now is that I don't want to work in a cubicle.

### Awards

### Value

The University of Western Ontario Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: University of Western Ontario	\$1 000
Bronze Medal - Physical & Mathematical Sciences - Intermediate Sponsor: Encana Corporation	\$300
Total	\$1 300