

# CWSF 2017 - Regina, Saskatchewan



## Noah Davidson

### Material Swings

**Challenge:** Discovery

**Category:** Intermediate

**Region:** St. James-Assiniboia

**City:** Winnipeg, MB

**School:** Collège Sturgeon Heights Collegiate

**Abstract:** The purpose of my project was to determine whether the material of a baseball bat would affect the amount of energy transferred to a baseball. I believed that a bat made of composite material would outperform aluminum and wooden bats. After completing my experiment, I concluded that my hypothesis was correct, and discovered my results could be explained by hoop modes and the Trampoline Effect.

### Biography

My name is Noah, and I am in grade nine at Collège Sturgeon Heights Collegiate in Winnipeg, Manitoba. Besides competing in science fairs, I love participating in sports. I run marathons, curl, and play hockey and baseball. However, baseball is my favourite sport. Some interests of mine include camping, reading, geocaching, and hanging out with friends and family. I enjoy helping my community by volunteering at my local community club. I do well in school, have earned a few academic awards, and love Math and Science. I am, and will continue to take I.B., and love aviation class. My school has the best program in the province. I have competed in science fairs since the third grade. However, since grade five, my focus has been on physics and how it relates to the sports of football, baseball, and curling. This is a perfect inspiration for me since I love both science and sports. I'd still like to find out if different types of wood bats, such as ash or maple, would perform differently as well. Finally, my advice to future science fair participants would be to simply do a project that you're passionate about, and to enjoy the experience!

### Awards

### Value

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