

CWSF 2008 - Ottawa, Ontario



Mackenzie Cook

Winging it- A study of how air temperature affects the efficiency of flight

Division: Health Sciences / None

Category: Senior

Region: Algoma Rotary

City: Sault Ste. Marie, ON

School: Korah Collegiate & Vocational School

Abstract: This experiment is meant to determine the affect of temperature on the efficiency of flight. A wind tunnel was constructed to simulate and aircraft's wing and the tunnel's air temperature was altered to determine how much lift is generated by an aircraft's wing at various temperatures. Force meters and temperature probes were utilised inside of the wind tunnel to record these observations.

Biography

My name's Mackenzie Cook, I live in Sault Ste. Marie, Ontario and I am in Grade 12 at Korah Collegiate in the International Baccalaureate program. I enjoy many sports such as hockey, golf, badminton and track and field. I am a 2-time competitor at OFSAA, a provincial competition in track and field. I enjoy video games, and technology in general. I am going to Carleton university next year in the Electrical Engineering Program.