

CWSF 2010 - Peterborough, Ontario



Chanice Hazlitt, Ally Burns

Light and Weight, How Do They Relate?

Division: Physical & Mathematical Sciences

Category: Intermediate

Region: Rideau-St. Lawrence

City: Lyn, ON

School: Thousand Islands S.S.

Abstract: This project tested the range and accuracy of a homemade Michelson interferometer modified as a measurement tool for tiny masses. The device uses principles of light interference, a lever and a mathematical formula to determine the mass of an object. After it was built, tested, and calibrated, it was able to accurately measure the mass of a sample such as an eyelash.

Biographies

Chanice - My name is Chanice Hazlitt. I am 16 years old and in grade 10 at Thousand Islands Secondary School. I am in HELP (Humanitarian Education Leadership Program) club and OSAID (Ontario Students Against Impaired Driving). I love reading and writing stories. In the future, I want to be a physicist.

Ally - I am 15 years old, in grade 10 at Thousand Islands Secondary School. I got involved in Science Fair in grade 7 as a school project and have dreamt of attending the national competition every year since. I enjoy playing guitar, camping/fishing, basketball/football and hanging out with friends. At school, I have been involved in Envirothon, OSAID, and band. I would like to pursue mechanical engineering as post secondary studies.

Awards

Value

Honourable Mention - Physical & Mathematical Sciences Intermediate Sponsor: Encana Corporation	\$100
Total	\$100