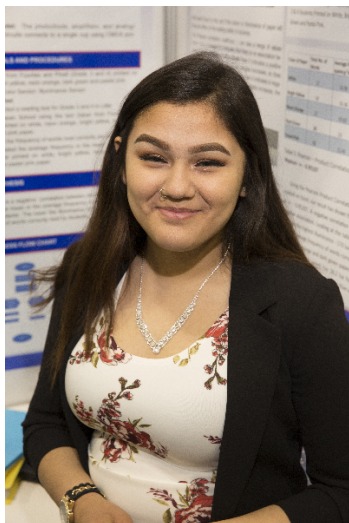


CWSF 2019 - Fredericton, New Brunswick



Kayla Anderson

The Effect of Light Reflectivity on the Reading Ability of Students

Challenge: Health

Category: Intermediate

Region: Manitoba First Nations

City: Gypsumville, MB

School: Little Saskatchewan School

Abstract: A number of students in Little Saskatchewan struggle with reading when words are printed on white paper. We conducted a reading test to Grade 3/4 students to validate our hypothesis that the illuminance has an effect on the reading ability of students. Our study has confirmed that the higher the illuminance of paper- white and pastel pink, the more visual stress it creates to the reader.

Biography

I am Kayla Anderson, a Grade 9 student from Little Saskatchewan School. I have always been a strong student in Math and Science. When my mentor suggested this project to me, I was thrilled because it is very personal to me. I have a brother who was diagnosed with dyslexia and all throughout his elementary school days he was different. This project has helped me grow in so many ways. I was able to relate Physics to Cognitive Development. I also get to realize that I still have to do more tests to validate my results, consult or seek words from Reading Experts in the future to put more depth on in. In our project, we also used Statistical Test or the Pearson Correlation Coefficient. Our project's objective is to investigate on the role of colors in the reading ability of students. For next year, I intend to get the baseline data or reading levels of the students that we will be testing. Also I would like to use Fountas and Pinell Reading Assessment tool, with the help of a reading expert to interpret our results. I would want to recommend students to do a study on Cognitive Development or Behavioural Sciences.