



CALIFORNIA SCIENCE & ENGINEERING FAIR 2019 PROJECT SUMMARY

Name(s) Keddy Thomsen	Project Number J0716
Project Title Identifying Color Blindness in the Primary Grades	
<p style="text-align: center;">Abstract</p> <p>Objectives For my science fair project, I tested students in grades K-5 to identify if they had any indication of colorblindness. In my experiment, I individually tested 40 students with a standard Ishihara plate color blindness test. 6 students out of 40 showed signs of some type of colorblindness. I chose to do this project because in my 7th & 8th grade art class our teacher noticed some kids were struggling with our color wheel project, so she tested them for colorblindness, and it turned out they were positive with different types. I was curious if there were more students at my school and why this wasn't caught in the primary grades.</p> <p>Methods Materials: Chromebook Ishihara Plate test Method: I created a PowerPoint test that I showed to students individually and kept a log of their answers.</p> <p>Results In grades K-5 my data shows that 6 of the 40 students I tested show some type of colorblindness. It was equal 3 boys and 3 girls. My data shows that in Kindergarten, 1 in 8 students were identified. In 1st grade-2 in 8 students, in 2nd grade- 1 in 8 students and in 3rd grade - 2 in 8 students were identified. None were identified in 4th or 5th grade.</p> <p>Conclusions In conclusion, I was able to identify students with colorblindness in the primary grades. My data came out the way it did because our school population is a micro representation of the general population. This information made me more aware of the challenges that kids face who are color blind. I would like to see a Ishihara Plate test poster in doctor's offices next to the standard vision test.</p>	
Summary Statement I tested students for colorblindness in the primary grades.	
Help Received None. I created the PowerPoint presentation and performed the student testing.	