



Classroom Competition

Competitively Engaging Fifth-Grade Students With Classroom Competition

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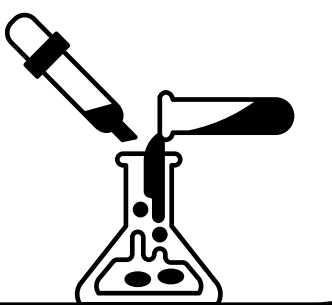


Data Collection

- Data was collected using:
 - Pre- and Post-Tests
 - Likert-scale Surveys
 - Student Group Interviews

Data Analysis

- Data was analyzed using the following methods:
 - Independent Samples T-Test
 - Inductive Analysis



Research Question

How does pushing individual classes of students to compete with other classes on daily assessments affect students' attitudes toward learning and their academic performance in a unit on matter and energy?

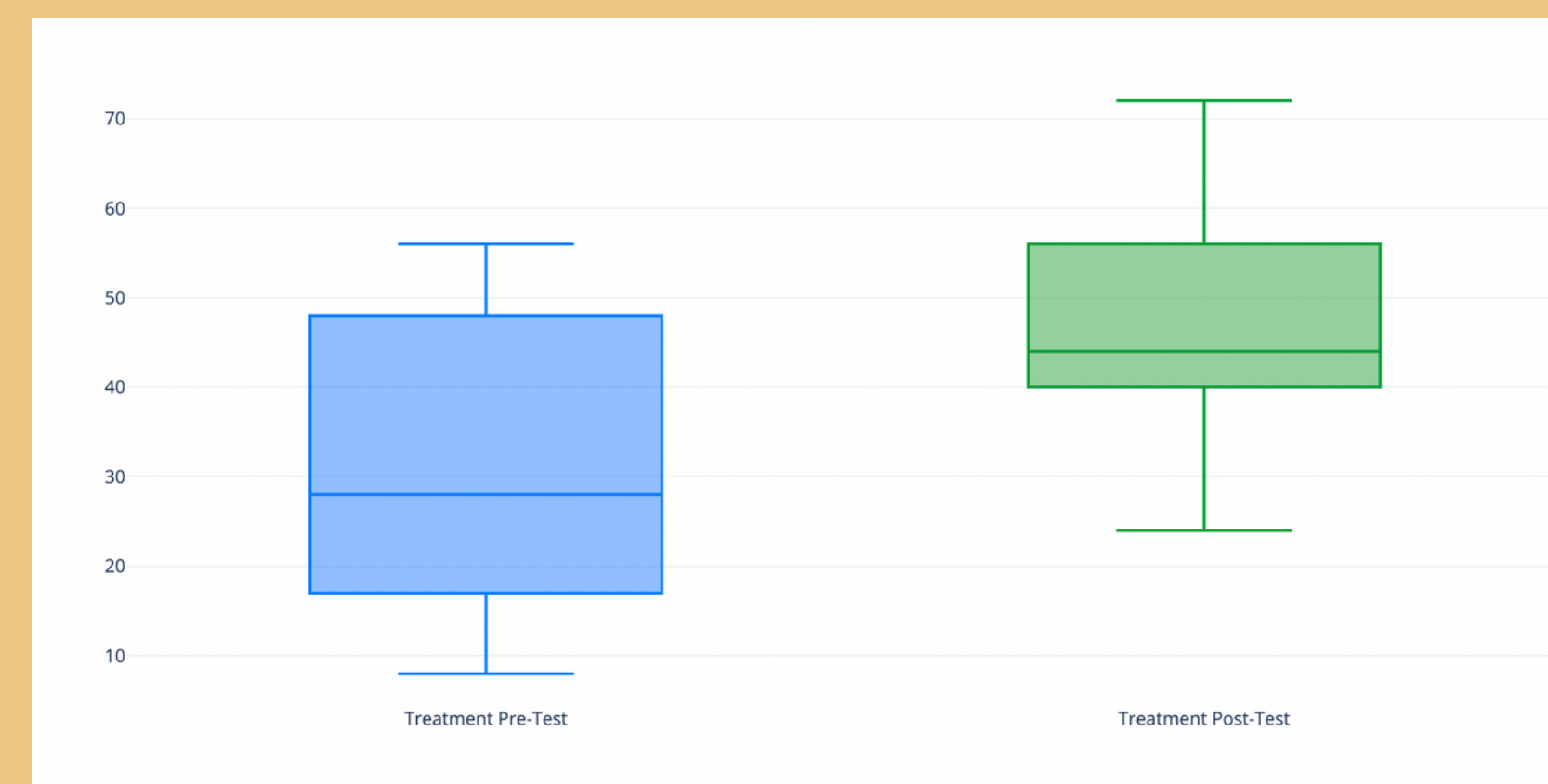
Treatment

- Three classes of fifth-grade students took a pre-test on matter and energy.
- Two classes received the treatment, one served as a control group. Classes were picked for participation based on teacher availability.
- All classes participated in daily formative bellwork questions. Treatment group scores were averaged. The following day, these averages were displayed on the board and ranked first and second.
- Classes competed to have a higher average score than the other class.
- A post-test was administered to see if treatment groups had significant gains in scores over control groups. Group interviews and Likert-scale surveys were conducted to gather qualitative and quantitative data.

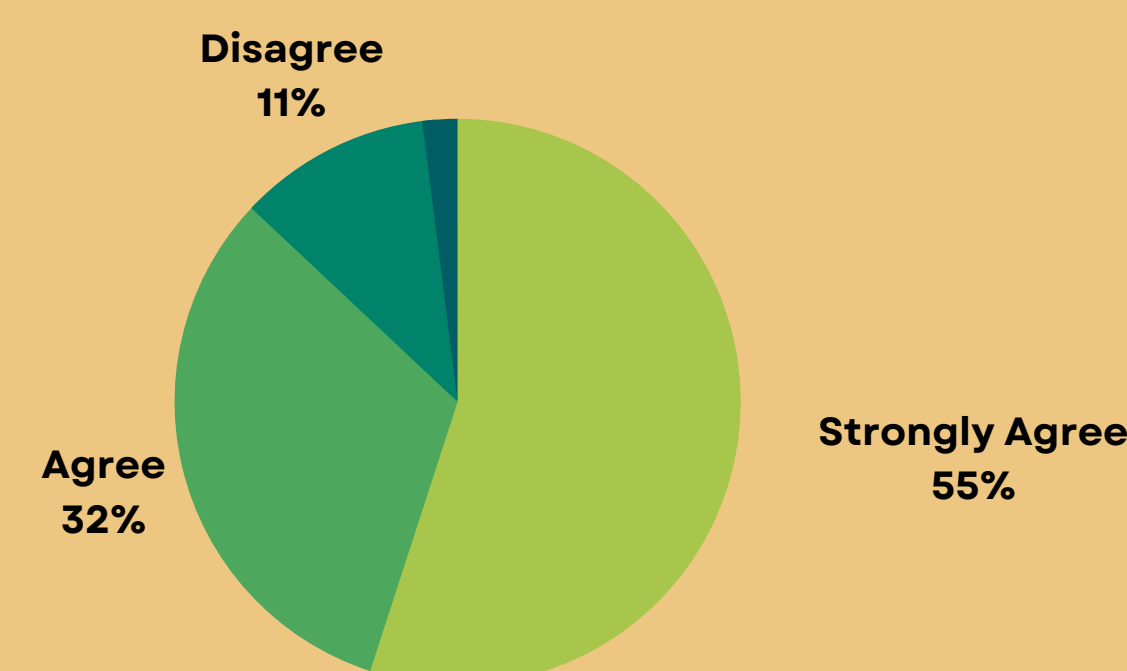
Background

- Wailuku Elementary School (WES) is part of the Maui Complex in the Maui District of the Hawai'i Department of Education. The public school serves students from prekindergarten-fifth grade.
- 98.5% of enrolled students from minority populations. Most being Filipino, Native Hawaiian or Pacific Islander, or Latino (USNews, 2022).
- Students at WES tested below the state average for English and math proficiency.
- This research project was conducted on a class of fifth-graders at this school.

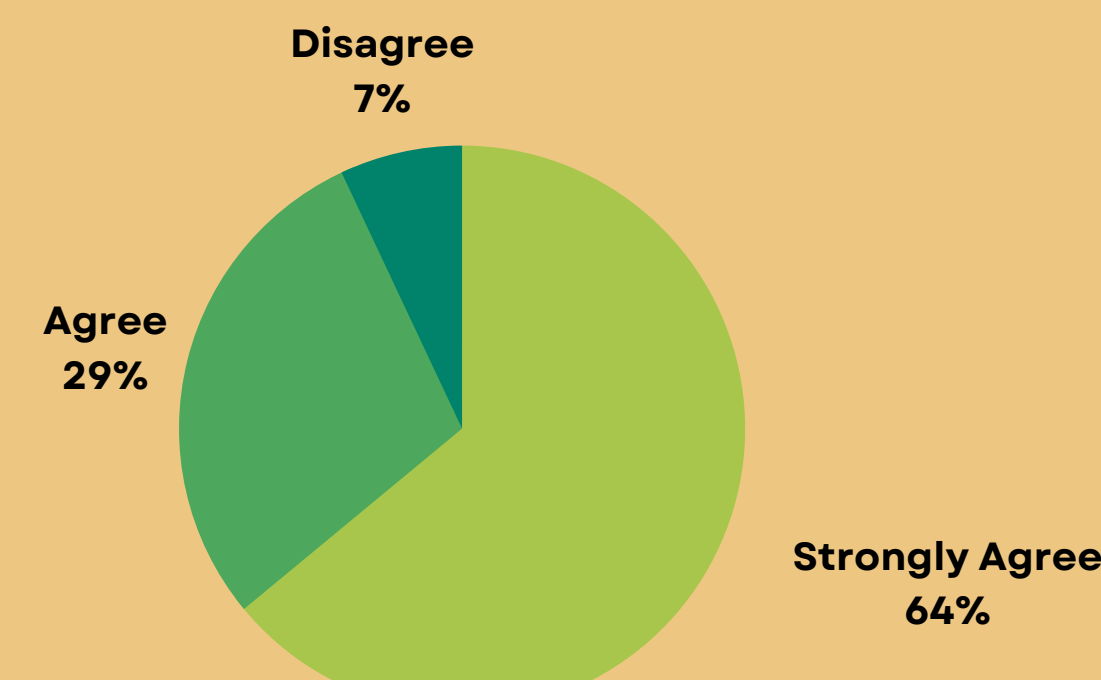
Pre- and Post-Test Scores for the Treatment Group



I Enjoy Competing With My Classmates



Competing Makes Me Want to Perform Better



Conclusion

- T-test results showed that the intervention had no major impact on the treatment group's performance on the unit's summative assessment.
- 67% of students Strongly Agreed and 29% Agreed that competing made them want to do better in class.
- Most students felt that the use of competition made the unit more memorable and enjoyable, and changes can be made to accommodate students that do not enjoy competing with other.

Citations

- USNews. (2022). Wailuku Elementary School. USNews. <https://www.usnews.com/education/k12/hawaii/wailuku-elementary-school-224961>