



Increasing Student Achievement Through Modification of Cognitive Rubrics in the Summit Learning Platform.



By Drake Haren

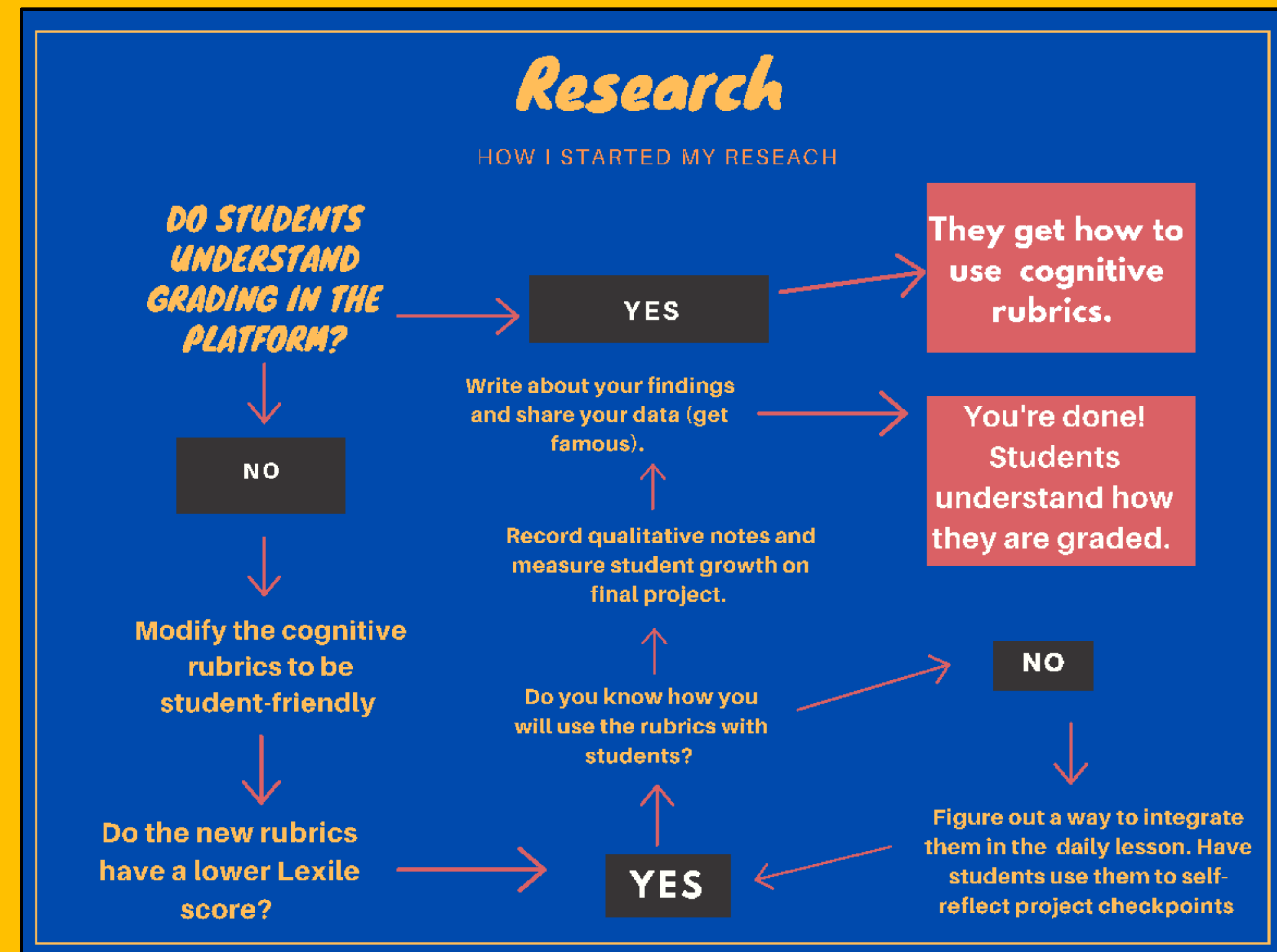
Research Question

What are the results of modifying the cognitive rubrics to be student-friendly in the Summit Learning Platform lead to an increase in student achievement?

- What correlation is between student achievement and cognitive rubrics used to score the projects?
- How will using student-friendly language increase student perception of the platform?
- How might the changes to the platform inform and affect my practice?

Class Period	Total Students	Boys	Girls	Free & Reduced Lunch	Special Education
1 st (Experimental Group)	10	8	2	6	2
2 nd (Comparison Group)	10	5	5	5	1

Cognitive Rubric	Lexile Range	
	Unedited	Edited
Asking Question	1210-1400	810-1000
Predicting/Hypothesizing	1010-1200	610-800
Introduction and Conclusion	1010-1200	810-1000
Planning and Carrying OUT Investigation	1210-1400	610-800
Identifying Patterns and Relationships	1210-1400	810-1000
Interpreting Data	1010-1200	610-800
Making Connections	1010-1200	610-800



What is this project about?

Essential Question

- How can living things be used to clean the environment of the toxins produced by e-waste?
- How can humans reverse the damage they do to the environment?

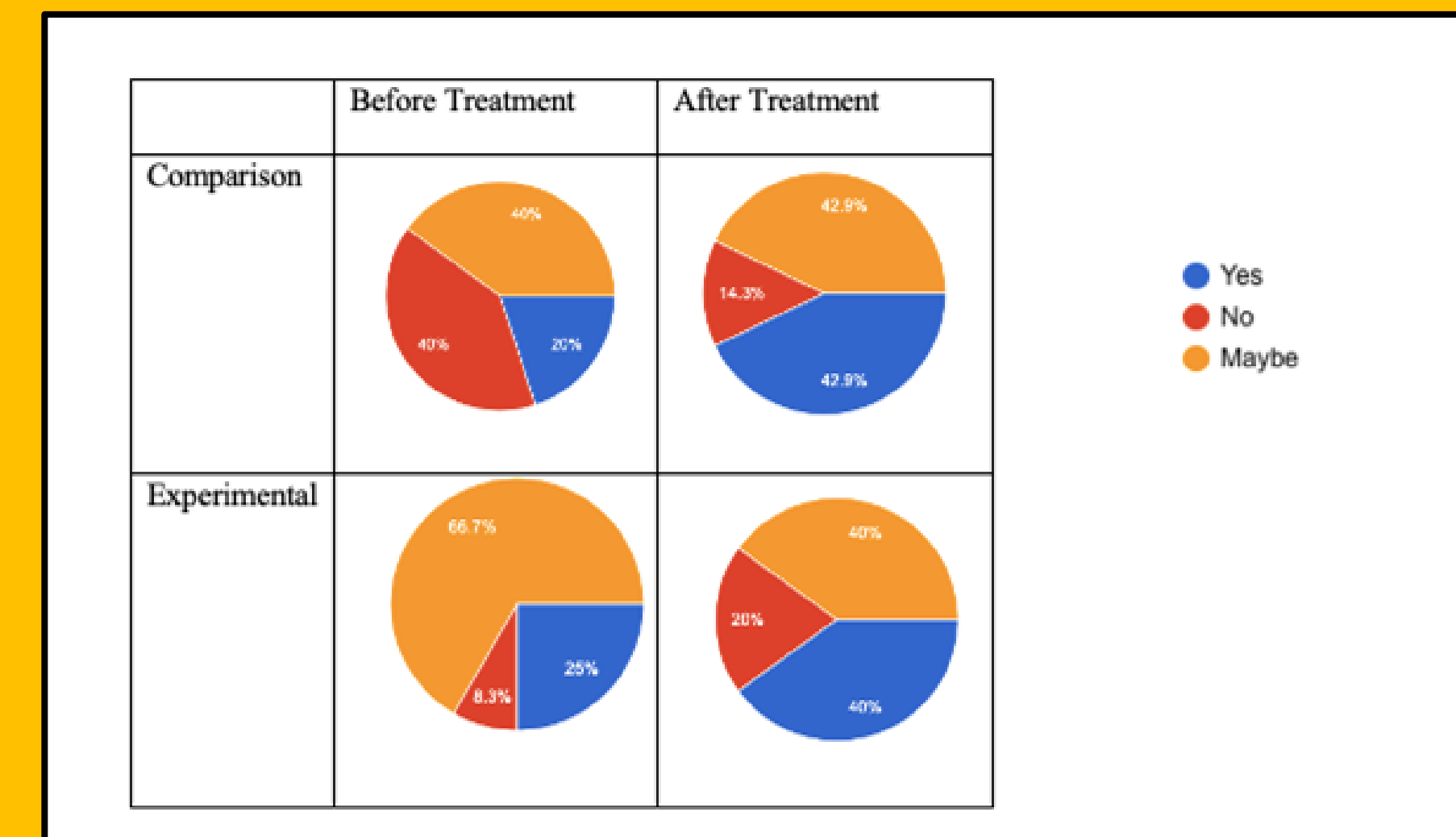
Experimental Group Data

Student First	Past Projects	Cog Skill Averages	Cog Skill Percent	Overall Score	Absences
Christopher	2	5.5	100%	100	2
Simon	2	5.0	93%	94	0
Lilyonna	2	5.22	96%	97	0
Averages		5.24	96%	97	0.6666666666666667

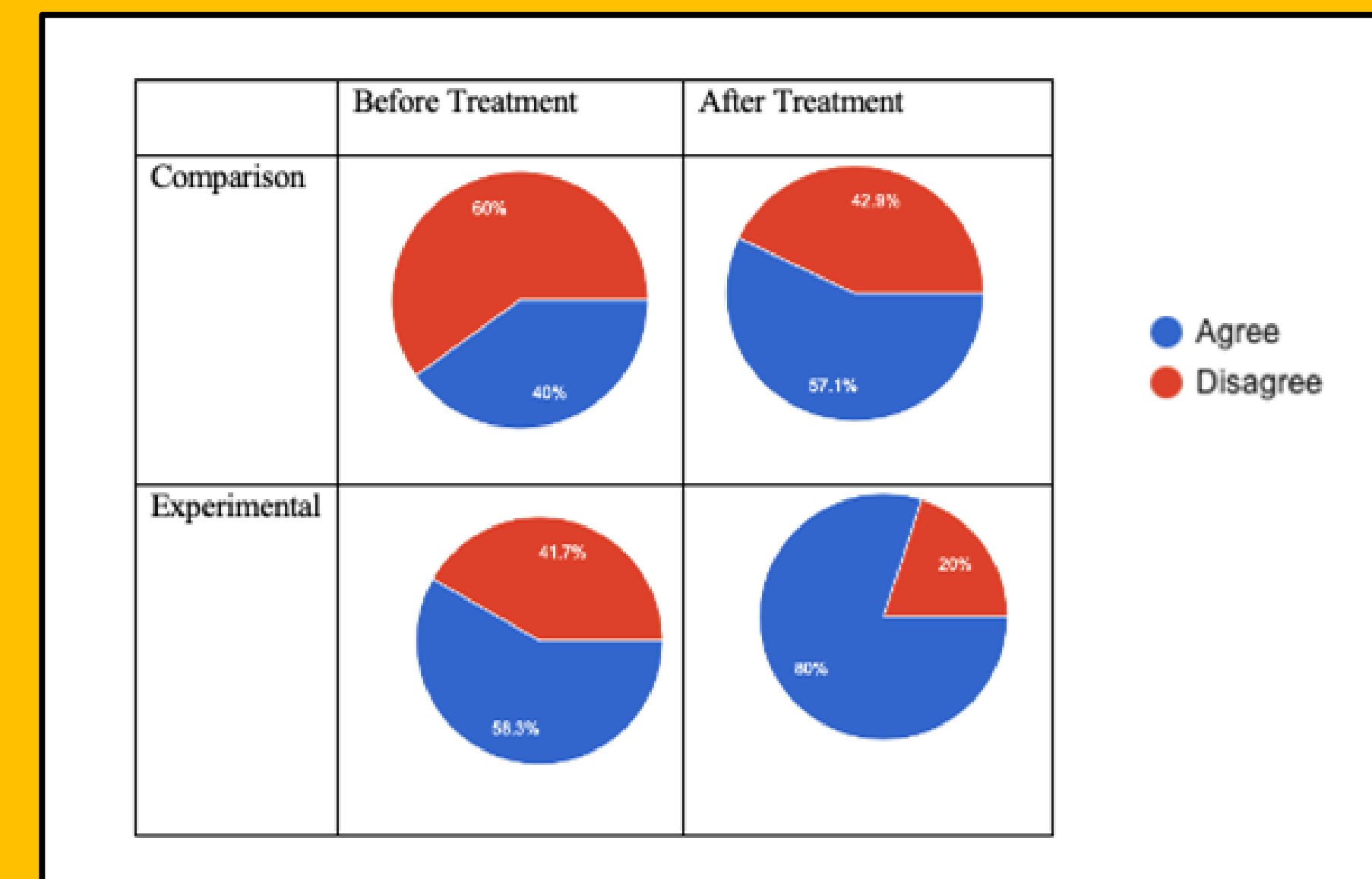
Comparison Group Data

Student First	Past Projects	Cog Skill Averages	Cog Skill Percent	Overall Score	Absences
Kiara	1	5.2	18%	34	1
Robert	1	3.7	81%	85	7
Gage	1	4.7	55%	57	1
Averages		2.25	51%	58.666666666666667	3

I understand how cognitive rubrics are used to determine my final grade.



I use the cognitive rubrics to self-assess my own work.



Implications to My Teaching

The results suggest that changes to the cognitive rubrics:

- Increased understanding of how their grades are calculated.
- Decrease in the number of absences and positive changed perceptions of Summit Learning Platform.
- Increase on average of 2.9 on the cognitive skills scores.

The changes made to the Summit Learning Platform informed my practice by me with new motivations and self-confidence in using the platform.