Flipping the Chemistry Classroom

Background
At Rancocas Valley Regional High School in Mount Holly, NJ I noticed a lack of concentration and engagement in my classroom. Due to the digital age current students are experiencing, I decided to try a new approach by flipping my classroom. The flipped classroom is a method of teaching that allows the teacher to become resource instead of a lecturer. Students watch informational videos outside of class and participate in engaging activities while in class.

Research Questions

**Primary Question:** What is the effect on student achievement in a flipped classroom compared to a traditional method of teaching?

**Sub-question 1:** Does student engagement increase in a flipped classroom setting?

**Sub-question 2:** Do students prefer a student-centered classroom atmosphere?

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Results
Summative assessment results between treatment and non-treatment groups were not statistically significant. According to teacher observations, students were more engaged in classroom activities during the treatment period. Post treatment survey responses showed that only nine percent of students preferred the flipped classroom technique. However, one student commented, “I would actually love to do this method again.”

Julie Welde
Rancocas Valley Regional High School
Mount Holly, NJ