Abstract

This project addresses the difficulty students have visualizing algebra. An online Algebra Scale and a set of Algebra Tiles were designed and developed. These tools were provided to a local 8th grade classroom, where they were used for three weeks. Our results show that students who used the teaching aids improved, and enjoyed the tools. However, they did not improve significantly more than the students who did not use the teaching aids.

Methods

Develop teaching aids for Algebra I topics

Test these teaching aids in a classroom and gather quantitative results and qualitative feedback

Move these teaching aids online, opening them up to students around the country

Results

“I strongly feel that [the teaching aids] WORK to help demonstrate the idea of weights to keep a scale balanced”

-Mrs. Bement (8th grade teacher)

Students taught with the teaching aids did not improve significantly more than those who were not

Students thought the teaching aids were “Cool” and “Helpful”

Hands on Algebra Tiles kept students focused

References


Special Thanks to Mrs. Bement, and all the staff at Mercymount Country Day School.