

## INTRODUCTION

How can schools make learning math more fun for young students? This hypothesis-generating qualitative research study introduces a math program to sixth grade students that focuses on teamwork and friendly competition on math learning tasks to see how math interest changes with changes in learning structure. Preliminary data from two students serve to inform advanced data collection in the future.

## BACKGROUND AND SIGNIFICANCE

According to data collected by Waterman (2010), it less common for pupils of color, even high-achieving pupils of color, to reach calculus by grade 12 compared to their white and Asian peers, due to placement in algebra classes starting in grade 9. This research emphasizes that students of color who come from lowincome families are disproportionately affected by the math achievement gap. This may be largely due to the fact that current teaching practices fail to engage students by portraying mathematics as uninteresting and cold. Students need to cultivate precise skills, but they also need to be exposed to the practice of problem solving in order to maintain an interest in mathematics (Boaler, 2015).

In the PAUSD school district as well as in the U.S. as a whole, there exists a rift in achievement between privileged students and historically underrepresented students. Based on research sourced in the Minority Achievement and Talent Development Advisory Committee report, black and Latino youth in the United States perform below the international average, at almost the same rate as black and Latino youth in countries with transitioning economies. The same pattern was found in PAUSD, one of the best school districts in the state (McKinsey & Company, 2009, as cited in the MATD Report, 2015).

## Game-Based Learning and Math Interest



