

Kennesaw State University

Open Source Technology for Teaching High School Mathematics

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In this new Teacher Quality project, high school mathematics teachers will learn to design and implement active learning experiences for students that employ open-source technology such as Geogebra and Desmos. Using the technology, their students will visualize and explore mathematical concepts. Participants will design instruction that requires students to use higher order thinking and authentic problem solving. Students' explorations of mathematics will occur in technology-rich environments that enhance mathematical learning. The teachers will learn and use research-based strategies to lead mathematical discussions that will support student learning with technology. The teachers will form a support community and share resources and ideas during and after the funding period. Participants will be high school mathematics teachers in Cobb County, along with middle school teachers in the district who teach high school courses.

The project will begin in the summer of 2017 and conclude in the spring of 2018.

Arts & Sciences Unit of Institute of Higher Education
Kennesaw State University—Department of Mathematics

Unit of Institute of Higher Education that prepares teachers & principals
University of West Georgia—Department of Education

High Need LEA(s)
Cobb County