Project Objectives

South Washington County Schools is working to improve Mathematics achievement for all students. We realize that this is a multi-faceted issue that needs an articulated plan of action to include multiple strategies. We see the 3M Fellows as one important strategy to meet our goals.

Project Overview

The work of this project will have two primary goals:
1) The team will research strategies for meeting the needs of all students as a part of Mathematics instruction and assessment during the core mathematics lesson. These ideas will be shared with principals and teachers in order to provide learning around best strategies.

2) Team would research information regarding Mathematics intervention. This would include looking at how to provide specific focused interventions for children who may need targeted intervention beyond the core mathematics lesson. As materials are developed, buildings and teachers may be identified to work in partnership with the project team to pilot the interventions with students and monitor results. The goal would be to identify key ideas that could be utilized across the school district.

Program Layout/Calendar

High School Focus: Nii Ansah Tackie
Work with the high school teachers to help bring high-leverage teaching and learning practices in Mathematics Education through:
1) Engaging teachers in discussions about research-based teaching and learning practices
2) Lesson development, implementation, and assessment

Elementary Focus: Christina Miller
Work with a Mathematics intervention teacher develop curriculum and learning targets for students in Grades 1-4.
1) Professional development on children’s strategies for learning Mathematics in conjunction with Mathematics intervention instructional strategies
2) Create an online Professional Development opportunity for K-2 teachers
A 16-session course designed to deepen teachers knowledge about children’s strategies for developing addition, subtraction, multiplication and division concepts.

Major impacts

Impact on Teaching and Learning K-12 Mathematics
- Provide ideas for curriculum implementation in order to support students’ learning
- Equipped teachers with the idea of mindset (Dweck, 2007) and how they could support students appropriately
- Helping teachers with classroom organization and activity monitoring
- Serving as a resource for any problems or questions teachers have about teaching and learning Mathematics
- Conveying importance of Mathematics Education to teachers and students
- Developing assessment instrument to prepare students for state test
- Mapping curriculum to the state standards
- Provide professional resources to make informed curriculum decisions
- Develop online professional development opportunity to reach district teachers and provide content for Professional Learning Community (PLC) conversations