

2014-2015 Mathematics and Science Partnership Projects

New Projects for 2014-15:

Avoyelles Elementary Mathematics

Partners: Avoyelles Parish, Evangeline Parish, LSU Gordon Cain Center for STEM Literacy

- The project will center on professional development on content basing activities and instruction on Eureka Math.
- Achieve a 25% increase in student achievement.
- Increase leadership capacity in each of the district schools to include delivery of peer in-service trainings by participating teachers to develop mentoring opportunities.

Bossier High School Mathematics and Science

Partners: Bossier Parish, Caddo Parish, Webster Parish, and LSU-Shreveport

- Provide high quality math and science instruction for participating teachers from the partnership districts.
- Prepare teachers with tools and methods to bridge and fill the gaps between knowledge and incorporating rigorous standards.
- Provide lessons that are rich in subject content and real-life situations to students in Physical Science and Algebra I courses.

Bossier Elementary Mathematics

Partners: Bossier Parish and LSU-Shreveport

- Statistically improve student achievement in 3rd and 4th grade mathematics.
- Provide intensive training for 3rd and 4th grade teachers in the areas of mathematical and pedagogical content knowledge.
- Deliver training to teachers to assure classroom instruction with fidelity to Common Core State Standards for Mathematics.

Caddo Elementary Science

Partners: Caddo Parish and Centenary College of Louisiana

- Enhance student achievement through improved teacher content and pedagogical knowledge.
- Enhance teacher and students use of educational technology for teaching and learning.
- To improve students achievement through formative and summative assessments.

East Baton Rouge Elementary Mathematics

Partners: East Baton Rouge Parish School System, J.K. Haynes Elementary Charter School, LSU Gordon Cain Center for STEM Literacy, Red Stick Robotics, and Southern Regional Collaborative for Excellence in Science and Mathematics Teaching

- Focus on improving 3rd and 4th grade student performance in mathematics by reinforcing foundational skills and developing deeper conceptual mathematical understanding.
- Provide an intensive Common Core Summer Institute to equip participants with information, tools and technology applications.
- Develop a leadership cadre of project participants, school district administrators, content trainers and principals who understand the expectations for elementary mathematics instruction aligned to the CCSS and how to support full implementation.

Lafayette Middle School Mathematics

Partners: Lafayette Parish, Iberia Parish, and the University of Louisiana-Lafayette

- Assist teachers as they increase their understanding of mathematics as it is aligned to the Common Core State Standards and Mathematical Practices.
- Increase achievement in mathematics of students taught by MSP participants
- Improve teacher Comp-ss scores by comparing previous years Compass evaluation data to that of the project year.

Lafourche Middle School Mathematics

Partners: Lafourche Parish, Assumption Parish, Diocese of Houma-Thibodaux, the University of Louisiana-Monroe, and Our Lady of Holy Cross College

- Improve the academic achievement of 6th-7th grade students in the math content area.
- Improve the math content knowledge and pedagogical skills of 6th – 7th grade math teachers.
- Increase in mathematical activities that are student engaging and use math processing skills for problem solving, reasoning, communicating and connecting.

Lafourche Middle School Science

Partners: Lafourche Parish, Assumption Parish, Terrebonne Parish, Diocese of Houma-Thibodaux, and Nicholls State University

- Improve the academic achievement of 6th-8th grade students in the science content area.
- Improve the science content knowledge and pedagogical skills of 6th – 7th grade science teachers.
- 75% of the participating teachers will score an average of 3 and/or 4 in the domain areas with attributes of formative assessment, rigor and engagement based on COMASS and walkthrough data.

Monroe Middle School Mathematics

Partners: Monroe City Schools and the University of Louisiana-Monroe

- Participating teachers will demonstrate understanding of CCSS content and use of appropriate instructional practices and tools.
- Participating teachers will improve performance as evidenced by observation and the percent of teachers receiving Ineffective rating will decline.
- Student math performance for participating schools will improve and positively impact School Performance Scores.

Ouachita Fifth Grade Math

Partners: Ouachita Parish and Louisiana Tech University

- Improve teacher content knowledge and pedagogy through the use of research based instructional strategies as they relate to the Common Core.
- Increase understanding and ability to align instruction and assessment with the Common Core State Standards for Mathematics at the fifth grade level.
- Increase student achievement in mathematics on benchmark and state evaluation (PARCC) at the fifth grade level.

St Bernard Elementary Mathematics

Partners: St Bernard Parish and Our Lady of Holy Cross College

- Increase the understanding of mathematical concepts required to teach the Eureka math curriculum.
- Prepare teachers to implement a selection of strategies appropriate for Tier 1 classroom interventions for struggling students.
- Students will demonstrate an increase in proficiency on state administered PARCC assessments.

Tangipahoa Elementary Mathematics

Partners: Tangipahoa Parish and Southeastern Louisiana University

- Improve teacher content knowledge in mathematics and instructional strategies.
- Prepare teachers with new instructional practices to be demonstrated during classroom instruction.
- Improve student attitudes toward mathematics and increase student achievement.

Zachary Middle School Mathematics

Partners: Zachary Community Schools, East Feliciana Parish, West Feliciana Parish, Point Coupee Parish, Slaughter Community Charter School, Central Community Schools, Louisiana State University, Red Stick Robotics, and the Southern Regional Collaborative for Excellence in Science and Mathematics Teaching

- Significantly improve the mathematics pedagogical content knowledge and classroom practices of 7th-8th grade teachers.
- Increase the achievement scores of students in classrooms of participating teachers.
- Develop a leadership cadre who understand current expectations for elementary mathematics instruction aligned to the CCSS and how to support full implementation for the CCSS and dissemination of best practices in mathematics learning.

Year Three projects (Final year of the three-year cycle)

Avoyelles Middle School Mathematics

Partners: Avoyelles Parish, Evangeline Parish, and the University of Louisiana-Monroe

- 7th and 8th grade math teachers in Avoyelles parish will be able to unpack and implement the Eureka Math modules which fully align with Common Core State Standards in order to provide for effective instruction
- 7th and 8th grade math teachers will be able to demonstrate the technology skills required for PARCC assessments
- 7th and 8th grade mathematics students will increase content knowledge as demonstrated by benchmark assessments

Bossier Middle School Mathematics

Partners: Bossier Parish and LSU-Shreveport

- Increase teachers' knowledge of the mathematics content of the Common Core State Standards which include: focus, coherence and rigor in the classrooms. Teachers will focus on identifying mathematical practices that will set explicit expectations for fluency appreciation and modeling.
- Provide a program of high-quality professional development that responds to the needs of Bossier Parish.
- One hundred percent of the teachers will be knowledgeable of the Model Content Framework and the PARCC assessments for mathematics.

Caddo Middle School Mathematics

Partners: Caddo Parish and Centenary College of Louisiana

- Project emphasis on school teams to focus on the mathematics progressions between grade levels.
- Heavy focus will be on Equations and Expressions because this is one area that is taught in both 7th and 8th grade.
- Adult level instruction will connect teachers to accompanying Common Core resources such as the Math Design Collaborative, EngageNY, and NCTM Illuminations.

Calcasieu Elementary Mathematics

Partners: Calcasieu Parish, Lake Charles Charter Academy, Diocese of Lake Charles, and McNeese State University

- The primary focus of the third year of this project will be to build teacher math content knowledge in a technology-infused, activity-rich environment.
- The summer institute will focus on the Eureka math curriculum and work to build the teachers' depth of knowledge with rigor and fidelity to Common Core State Standards for mathematics.
- The university instructor and master teachers will provide opportunities for the teachers to experience coherence vertically (across multiple grades) and horizontally (within the same grade band) learning activities around the state approved standards.

Calcasieu Middle School Mathematics

Partners: Calcasieu Parish, Lake Charles Charter Academy, Diocese of Lake Charles, and McNeese State University

- Build teacher math content knowledge in a technology infused, activity-rich environment.
- Focus on the Eureka math curriculum and work to build depth of knowledge with rigor and fidelity to the Common Core State Standards for Mathematics.
- Increase the number of students proficient in middle school mathematics.

Lafourche 8h Grade Mathematics

Partners: Lafourche Parish, Assumption Parish, St Mary's, Diocese of Houma-Thibodaux, and the University of Louisiana-Monroe

- Improve the core content knowledge and eliminate common teacher misconceptions of 8th grade math teachers.
- Improve the 8th grade math students' appreciation of and achievement in mathematics.
- Develop and expand the pedagogical skills and teaching strategies of 8th grade math teachers enabling students to experience mathematical applications.

Vermilion Middle School Mathematics

Partners: Vermilion Parish and the University of Louisiana-Lafayette

- Teachers will demonstrate and increase in content knowledge of mathematics with a strong focus on the Common Core Standards for Mathematics.
- Teachers will show an increase in Student Growth scores and achievement gaps between subgroups will decrease in mathematics.
- Increasing the comfort level of teachers in providing students with meaningful real-world experiences and hands-on activities in mathematics.