

School Improvement Action Plan

Explanation

CC. Pinckney 2012-2013

Goal: By the end of the 2012-2013 school year students will improve problem solving skills by selecting and applying problem-solving strategies as measured by an increase in the percentage of students at or above proficiency according to the Terra Nova 3rd Edition Math Sub-test (Grades 3-6).

Type of Goal: (Mark as appropriate) Knowledge, Application, Behavior, Attitude

Essence of the Goal: Students will improve problem solving skills by selecting and applying problem-solving strategies, identifying necessary information, using patterns and relationships to evaluate situations, applying inductive and deductive reasoning, spatial and proportional reasoning, and solving a variety of non-routine, real-world problems.

Support Data (from the Profile): 1. Fort Jackson Environmental Scan 2008 2. Terra Nova Multiple Assessment, Math Subtest 2008 Grades 3 rd – 6 th 3. Customer Satisfaction Survey 2012	System-wide Assessments: 1. Terra Nova Multiple Assessments 2009 Math Subtest Grades 3-6	Local Assessments: 1. Pre/Post Tests, Grades 3 rd -6 th a. enVision Grades 3 rd – 5 th b. Math Connects Grade 6 2. Problem Solving Test Pre/ Mid-Year/Post Test s 3 rd – 6 th
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Intervention/Strategy: The school will develop and implement math journals throughout all grade levels.	Research: Kostos, Kathleen; Shin, Eui-kyung (2010) Using Math Journals to Enhance Second Graders' Communication of Mathematical Thinking: Early Childhood Education Journal, v38 n3 p223-231 Oct 2010 This article summarizes the benefits of math journals and outlines ideas for using math journals in the classroom Burns, Marilyn; Silbey, Robyn (2001) Math Journals Boost Real Learning: Instructor, v110 n7 p18-20 Apr 2001. This article outlines introducing math journals and the math journaling process.
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Activities to implement the intervention:	Person(s) Accountable: POC	Timeline Beg.	End	Evaluation of intervention	Resources Needed
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Teachers will use the “Writing to Explain” problem to demonstrate math problem solving strategies.	Principal, Teachers	August 2012	May 2013	Principal will review demonstration lessons via class walk-throughs and teacher lesson plans.	“Writing to Explain” from enVision math series.
Teachers in all grades will implement and provide twice weekly opportunities for students to use math journals to solve the “Writing to Explain” problem. Students will respond to math problems in math journals at least two times per week.	Principal, Teachers	October 2012	May 2013	Teachers will review their students’ math journals weekly to check for understanding of the content.	Math Journals for students’ “Writing to Explain”
Teachers will provide weekly feedback to students. Feedback will include comment on choice of appropriate strategy and successfully solving the problem.	Principal, Teacher	October 2012	May 2013	Teachers will review their students’ math journals weekly to check for understanding of the content. Teachers will bring math journals to collaborative team meetings to review with their respective grade level teams.	
Extended Learning Opportunities (ELO), an after school math program, will be offered to BGL students in Grades 3 rd -6 th .	ELO Teachers ELO Coordinator Principal	December 2012	March 2013	ELO Teachers ELO Classroom	Math Materials from District Funding for Teachers from District