



2013 - 14 Educational Grant Application
Deadline: Wednesday, March 20, 2013, by 4pm

Name of Grant: Linking Literacy to Mathematics

Name of person submitted by: Katie Strong

Campus/Department: Evans Elementary **Grade Level(s):** 3rd Grade

Total Dollar Amount Requested: \$710.00

Number of students who would be involved/impacted by grant: 132 (entire 3rd grade)

Name of principal or immediate supervisor who will approve submission: Pam Hale

Project Purpose: What is the problem, need or opportunity that this grant will address?

There are many benefits to using literature in the math classroom, such as the fact that both content areas of Reading and Mathematics require the development of many of the same concepts: pattern recognition, classifying, examining relationships, organizing thoughts.

Integration of these two content areas allows for the simultaneous development of both math and language arts skills. Math literacy scaffolds the learning and provides context by presenting authentic narrative text and colorful illustrations of mathematical representations.

Project Description:

The teachers that receive these kits will be able to introduce new units of study to the students through these popular and informative books. An entire year of math concepts are illustrated in contextual formats that bring meaning and authenticity to the world of math within each kit. Integrating math in stories and problems is a real-life application that brings aesthetic appeal and depicts life experiences, making mathematics even more relevant to students through curriculum connections of Mathematics and Reading. Many students who have trouble in Language Arts also have trouble with Mathematics because of the reading component. These books would help assist students having difficulties in both subjects by teaching story elements while also teaching mathematical concepts.

Many student learning styles will be addressed in this program. Auditory learners benefit from the story being read aloud and visual students enjoying reading the books and viewing the illustrations on the pages. Also, because there are such a vast variety of topics covered in these books through characters and story lines, many student interest areas are addressed, bringing excitement to the lessons promoting reading enjoyment and life-long learners.

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Allen ISD Goals/TEKS:

"We believe every child deserves the highest quality education." – In supporting the core beliefs of *The Allen Way* philosophy, this grant opportunity will allow us to further complement our existing curriculum in math.

All third grade math TEKS will be supported in the implementation on these resources.

Measurements:

Teacher created rubrics, ongoing observations of student interest and engagement, and team discussions on student reactions will all be used. Teachers will be able to compare Math Beginning of Year assessments and Simulation scores of the past years. We also hope to analyze Math and Reading STAAR scores in the years to come to and see that students are achieving higher academic readiness.

Teaching Methods:

The Literacy Library's "3 E's to Excellence":

1. **ENJOY** – Reading the quality selections will build on students' appreciation for both math and literature. These books bring richness and motivation to the wonder of Mathematics
2. **ECHO** – Students are given the opportunity to express their thoughts, in writing, after connecting with the literature. Whether the student relates the text to himself, the world, or his previous math experiences, he gets to record his ideas on paper, which provides the instructor with an opportunity to check for understanding of the concept being taught.
3. **EXTEND** – After a story has been read, the instruction part of the lesson may begin where math concepts are taught more thoroughly, many times through use of manipulatives or examples from the stories themselves.

Timeline for project: Funds will be available after September 1, 2013.

September 2013 – We will continue to use these materials as valuable resources for our campus math resources.

One of the greatest benefits of this program is that it doesn't require additional material each year, and once purchased and received, can be implemented immediately. Because the books address curriculum taught throughout the school year, the material will be used in 3rd grade math classrooms.

Curriculum/System Support:

We know that math has been a focus for the district in order to make it an exemplary district. We are well aware that math is a crucial subject for students to know and understand in this ever changing world we live in. We want to be able to help increase student success in not just memorizing math concepts, but actually producing them and evaluating how they work in real life. We know that our 3rd graders still think very concretely, and any authentic experience and discussions we give them will stay in their life beyond the 3rd grade classroom.

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Grant Budget:

Instructional Supplies or Resources: (Books, Manipulatives, etc.)	
3 – 3rd Grade Literacy Library Kits (66 Books) and Linking the Literature Teacher Guides:	\$615.00
Shipping	95.00
	Total: \$710.00
TOTAL AMOUNT REQUESTED	\$710.00