

General Information

Grant Number	807
Project Title	Math is FUNctional!
Please select the MAIN curriculum area your grant addresses.	Math - Elementary
Does your grant have a technology component? (Will you have technology equipment, software, etc. in your budget?)	<input checked="" type="radio"/> No <input type="radio"/> Yes
Primary Contact Information	
First Name	Regena
Email	regena.bell@allenisd.org
Last Name	Bell
Phone Number	214-495-6765
Campus	Kerr Elementary
Main Subject	Math - Elementary
Grade(s)	<input type="text" value="1"/>
I have co-applicants.	<input type="checkbox"/>
Social Media	
Please provide your work-related social media contact information.	
Facebook	
Twitter	regena.bell@allenisd.org
Other (please specify)	

Describe details of the project

Grant Number	807
Campus/Student Information	
Your campus:	Kerr Elementary
Will other campus' be involved/impacted by this grant?	<input checked="" type="radio"/> No <input type="radio"/> Yes
Your grade(s):	1
Will other grades be involved/impacted?	<input checked="" type="radio"/> No <input type="radio"/> Yes

Project Purpose

What is the problem, need or opportunity that this grant will address? Describe the impact of this project on your students. (500 words or less.)

"What a wonderful workshop!" "I'm motivated to teach the new math strategies!" "The kids will be excited!" Similar statements were expressed as the staff at Kerr Elementary exited the "Boxcars, and One-eyed Jacks math in-service. The methods utilized from this workshop will give children a winning way to enhance learning. Our grade level team has expressed the need for the new materials that will aid in math problem solving and differentiate learning for our students. This proposal is designed to provide first grade students with hands-on and process-based experiences with the use of mathematical manipulatives, math literature and songs. Using manipulatives in the classroom assists reasoning and problem solving and is in keeping with the progressive movement of discovery and inquiry-based learning. Many of our math materials are shared among all classes. It's imperative that supplies be accessible to all students in each classroom. The program will also strengthen writing and communication skills. Students will be offered opportunities to create story problem books which will be shared with peers, friends, and families. Each first grader will be provided with a math journal to record ideas, strategies, and discoveries. Mini-lessons will be taught at the beginning of each session to guide students on specific objectives using models along with books and songs. The children will then be free to explore using the materials to gain answers to the given problem. Risk-taking will be

encouraged to investigate the objective in various ways discovering that there is more than one way to obtain a correct answer. Students learn best when teachers use multiple instructional strategies that combine "see-hear-do" activities. Manipulative use enables all students, from those with lesser capability to those of greatest ability, to remain engaged with the content. Thus, learning with the "hands-on" engaging technique, allows for differentiated instruction. The expected outcome is to provide our class of first graders a balance between necessary skills and concrete sources to make math comprehensible and enjoyable. Writing skills will play a significant role by communicating their problem solving strategies. It is increasingly important for students to understand and appreciate the role of math and technology in our ever changing society. Early education in the primary years is the right place to start. As an experienced primary teacher, I have concluded that:

- A large and varied assortment of manipulatives in the classroom is a vital ingredient in improving math performance. We must surround children with opportunities that enhance problem solving.
- Writing everyday is essential for students to become proficient. Suitable mentor texts provide models for children preparing them for the writing process for all subject matter.
- Math and writing are connected with problem solving. When students can explain their reasoning, they are elevating themselves to a higher order of thinking.

Project Description

How will the project or program be implemented? Describe activities and tasks.
Who is the target population and in what ways will they benefit? (500 words or less.)

The grant project will improve academic achievement in math and strengthen writing and communication skills. Students will be offered opportunities to work individually and in cooperative groups with writing and math assignments. We will reflect on our problem solving which in turn both model and inspire wondering in our students. Monies from the grant will purchase math manipulatives, math literature sets and CD's for our grade level to be used in math stations. The literature will be a springboard for writing opportunities in our journals and notebooks. Our classroom will be set up with math stations that have set objectives for the students. There will be a teacher station for students that need extra help mastering a skill. Students will explore, discover, problem solve, write, and read in the math stations. The goal is to provide a variety of math activities that initiates understanding of the skill practiced.

Kerr Elementary has a growing diverse population. There are a number of students that enter first grade being identified as "at-risk." We also have a high number of students with English as their second language. As educators, we desire that all children be working at grade-level or above. There is a need to provide students with readily available materials that promote learning by effective means. Our classrooms need to be enriched with unique materials that will promote math explorations, literacy, and engagement for a comprehensive learning program.

Project Summary

Provide a brief summary for use on the Foundation's website and social media. (2-3 brief sentences)

Creating and building number sense with manipulatives are part of the hands-on experience that makes learning come together. Math tools, journals, games and literature are an integral part of the learning process that leads to greater achievement.

Allen ISD Goals/ TEKS

Which Allen ISD goals/TEKS does this project support? Provide only two or three examples.

1.1 Use a problem-solving model that incorporates analyzing given information, formulating a plan or strategy, determining a solution, justifying the solution, and evaluating reasonableness of the solution.

1.1(C) Select tools, including real objects, manipulatives, paper and pencil, and technology as appropriate, including mental math, estimation, and number sense as appropriate, to solve problems

Measurement

What specific measurements will be used to evaluate the effectiveness of the project? (500 words or less)

-Objective #1: By the end of the 2018-1019 school year, 85% of the target group will improve at least 50% on their expressive language and mathematical vocabulary when writing in their math experience journals.

-Evaluation #1: The instructor will do a comparative analysis, using a teacher-made rubric of the students' first math journal in September of 2018 and their last in May of 2019.

-Objective #2: In May of 2019, 90% of the targeted students will demonstrate a 50% improvement on teacher-made tests (Common Formal Assessments) of mathematical skills that correlate with the math TEKS (Texas objectives).

-Evaluation #2: Common Formal Assessments pretests and post tests will be administered. A comparison of the two sets of scores will be analyzed.

-Objective #3: By the end of the school year, 90% of the participating students will improve to "competent" or above level on the MCLASS math district assessment.
 -Evaluation #3: In October, February, and May, the MCLASS math assessment will be administered. Scores will be reviewed and gains recorded.

Teaching Methods

What teaching methods will be used to implement this project? (500 words or less.)

Math instruction in our classroom will involve active participation and will be implemented daily. Students will be provided with math manipulative tools that increase exploration possibilities to develop concepts and test hypotheses for students at all levels of ability. Mini-lessons will be provided at the beginning of each session that offers opportunities for engaging work. Risk taking will be encouraged. Writing, along with math, will be an essential element in the program. Students will create math journals/books and share their findings with peers and family. Math stations will be implemented in the classroom that provide for remediation as well as enrichment for the advanced learner.

Timeline

What is the project timeline and the date of implementation?

Timeline for Project;
Date Activity

September 2018 -Ordering of materials; implementing classroom procedures
 -Compiling a parent handbook which will include educational math apps and computer links for additional practice at home.
 -Place handbook on class webpage

October 2018- -Grant implementation
 April 2019 -Administer assessments to track progress
 -Display student work / Foundation Grant information at Open House
 May 2019 -Final expenditure and project report

Dissemination:
 -Email weekly newsletters to parents informing of classroom activities and projects; recognition/information about The Foundation for Allen Schools.
 -Develop a handbook for parents that includes reading and writing activities /apps/ computer links for practice at home.
 -Create a link on our classroom webpage describing our grant and The Foundation for Allen Schools.
 -Display projects and materials received from our grant at Open House in March.
 -Thank you cards written by children to Foundation members.

Curriculum/System Support

Explain how this idea or project enhances/supports Allen ISD curriculum or existing systems.

Allen ISD is a district that is innovative and supports the idea of inquiry-approach learning. This proposal is a researched initiative that fits within State of Texas and Allen ISD curriculum. A parent handbook will be created and made available on our classroom webpage. Technology links and educational apps will also be included. It is documented that parents are willing to help, but many do not know how to proceed. The handbook, along with weekly newsletters, will offer suggested academic activities and guidelines in maintaining the learning process at home. The way students invest out-of-school time is a critical factor in determining their academic success. It is a goal to encourage positive and meaningful family involvement in the educational process. Parents can help their child develop reading concepts, build vocabulary, and foster an attitude of curiosity outside of the classroom. Lesson plans and units of study will be shared with other school campuses upon request. The manipulatives are non-consumable for continuation of the grant project in up-coming years. Observations indicate that teaching reading strictly from a math worksheet does not provide for individual interest. It is critical that children be offered manipulatives/literature that is motivating and that can enhance the learning process. The hands-on approach will spark interest for children to help seal the comprehension of math skills.

Budget details

Budget Details ** All awarded funds will be available by September of the next school year.

Budget Item	Item Type	Unit Cost	Quantity	Total Cost
Shuffling into Math	Instructional Supplies or Resources	21.95	1	21.95
Math Shakers	Instructional Supplies or Resources	19.95	1	19.95
Rolling into Math	Instructional Supplies or Resources	39.95	1	39.95
Large Demo Card Deck	Instructional Supplies or Resources	12.0	4	48.0
Mini-Deck (0-12)	Instructional Supplies or Resources	2.5	52	80.0
Mesh bags with Toggles	Instructional Supplies or Resources	11.95	8	95.6
Stratedice	Instructional Supplies or Resources	4.95	4	19.8
Domino Math	Instructional Supplies or Resources	24.95	1	24.95
Domino Math Games	Instructional Supplies or Resources	24.95	1	24.95
Math Literature	Instructional Supplies or Resources	120.0	1	120.0
CDs	Instructional Supplies or Resources	15.0	4	60.0
Shipping	Other Expenses	60.0	1	60.0

BUDGET TOTAL 615.15

Are there any additional funds available for this grant? Campus or District Funds? PTA funds? Let us know if you have or will be seeking funds from other sources to help with this project.

Additional funds? No
 Yes

Signature page and principal contact

Principal Approval Required

Please provide the Name and Email of your PRINCIPAL. (Not your name)

First Name	Last Name	Email Address(Completed)
Ardath	Streitmatter	ardath.streitmatter@allenisd.org

Applicant Signature

By entering my name below I signify that I understand that if I move within the District and have written the grant myself, I may take the grant with me to my school (as long as it is appropriate for my classes). If I have written the grant as part of a team, I will leave the grant behind with the team. If I leave AISD, I will leave the grant with the school for which I wrote the grant. As a condition of this grant, I will complete an evaluation form provided by the Foundation.

Signature Regena Bell

Date 01/30/2018

Principal's approval form

I certify that this would be a good use of funds for our school and this grant supports the district goals and/or our campus improvement plans. **Do NOT include any identifiers, such as: campus name, your name, teachers name or mascot **

No actions possible.

Comments

Regena Bell is a skilled instructional leader on our campus. I wholeheartedly support her efforts in building resources that enhance the curriculum.

History and final disposition of application

State Change History

State Change	***** 01/29/2018 20:34:34 Submitted
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State Change	***** 01/29/2018 21:35:26 Accepted
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Grant Status	
Grant Awarded	<input type="radio"/> Yes
	<input type="radio"/> No
Award Amount	