Glassboro Education Foundation, Inc.

Send the completed application to the attention of:

Danielle Sochor

Beach Administration Building

Joseph L. Bowe Blvd

Glassboro, NJ 08028

A. General Information

Applicant(s): Samantha Shoemaker

Phone: (school): (856)652-2700 (Home): (856) 275-3688

E-mail(s): sshoemaker@gpsd.us

B. Statement of Assurances:

The applicant hereby assures the Glassboro Education Foundation that:

1. The applicant(s) meet(s) the eligibility criteria.
2. The activities and services for which the grant is sought will be implemented as written.
3. Any monies not expended within the school year shall revert back to the Glassboro Education Foundation, unless permission to carry it into the next school year is granted.
4. All publicity releases regarding a funded project will acknowledge the Glassboro Education Foundation and/or a particular mini-grant sponsor as the funding agency.
5. The grant recipient(s) will submit a final report summarizing the project's evaluation results.
6. The Board of Education authorizes the filing of this application.

We do hereby certify that all of the facts, figures and representations made in this application are true and correct to the best of our knowledge and that the assurances as stated above are understood and will be followed in their entirety.

Signature of Applicant

Signature of Principal

Please note: from this page on, please **do not include your name or your school** in any of your descriptions as all applications are coded to prevent bias.

C. **Project Title and Description**

Title of Project: Texas Instruments Graphing Calculators

Subject Area(s): Special Education Mathematics

Approximate Number of Students Participating: 40 students

Project Starting Date: November 1st, 2019 Project Completion Date: June 17th, 2020

Need: Describe the problem or deficiencies that exist which require the improvements described.

In a twenty-first century classroom lit is critical that students have access to project-based and contextualized activities. For Algebra students, the math they learn needs to be applicable. One way to increase students' ability to engage in collaborative, technology-based projects is to ensure all students have access to the same resources. By providing individual access to graphing calculators, students will be able to analyze characteristics of functions, compare and contrast functions, and create coherent representations of mathematical models for real world situations. Students will also have opportunities to investigate the insights gained from and limitations of using a graphing calculator as a tool to assist in mathematical problem solving. This will improve their mathematical proficiency among Algebra II student based on the New Jersey Student Learning Standards.

Strategy: Briefly describe your plan to alleviate the need/problem.

This grant proposal requests fund for twelve TI-84 CE graphing calculators for mathematics students. The students will be able to use the calculators to better understand concepts and real-world applications. Students today are constantly interacting with technology, so it is an advantage that they use it when learning math as well. Graphing calculators allow students to visually see their math problems and helps them understand real-world applications. Problem- solving is a critical skill that must be developed in all students because it applies to every aspect of life – from buying groceries to manipulating graphic representations of equations. It is critical that the math concepts they learn are relevant to real life. Sung real word examples from data that they have themselves collected engages students to learn problem-solving techniques in a way that no other tool can. The calculators connect an abstract thought into something concrete.

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D. Objectives, Activities and Evaluation Techniques (This page may be duplicated if necessary)

Objectives	Program Activities to Accomplish Objectives	Completion Date	Evaluation Techniques
Students will utilize the graphing calculator to make visual representations of their word problems. Students will engage in activities incorporating the graphing calculators to compare and contrast the impact of transformations on different quadratic functions. Students will make connections between algebraic manipulations and graphical representations of concepts.	Students will collaborate together using the calculators and other available technologies to develop technology-based presentations to demonstrate content knowledge.	June 17, 2019	The efficacy of the calculators will be assessed vis a pre-test and post-test. These assessment will examine students' abilities to compare and contract concepts, and construct arguments demonstrating their ability to reason mathematically given real-world situation.

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E. Itemized Budget

Materials/Equipment		Services		Evaluation Techniques	
Item(s)	**Cost**	**Item(s)**	**Cost**	**Item(s)**	**Cost**
TI-84 Plus CE	**$165.00**				
Graphing Calculator					
(12 calculators)					
Sub-total:	**$1,980**	**Sub-total:**		**Sub-total:**	
				Grand Total	**$1,980**