Technology Implementation

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EDTC8151364 Adv Adm & Super Tech Edu Setting

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Needs Statement

Census data confirms that 74,530 individuals above 18 years of age graduated high school in 2023. The exact number of these students that passed the GED standardized test are unknown. Adults pursuing their GED are andragogically distinguished, putting them in a status of independent learners. This independence in some cases causes adult students to not want to partake in group study GED classes. They can become easily distracted, daydream, or cause disruptions. Therefore, teaching GED mathematics can be challenging because of the attention to details needed to grab calculated concepts. Understanding mathematical concepts plays a vital role in conditioning an adult learner's mind as they prepare to take the standardized GED test.

A required tool needed as part of the test taking process is a mathematical calculator. Incorporating talking graphic calculators that speaks English and Spanish into GED math lessons, will helping with ELL and special needs students immensely, especially, those that are visually impaired. This apparatus can be used as an essential part of helping adults independently disseminate information. Research suggests interactive media can be a good machine learning method. For example, "The widespread use of smartphones has led to paradigm shift in how we view and engage with our lived environments. This is because handheld technology has become an integral part of our everyday lives", Kumer, P., Pandi Senthil, S., Kumaragurubaran, T., & Chiranjeevi Rahul, V., (2024).

The adult educational and GED testing organization in which the calculator will be utilized, is in an underserved and impoverished community supporting a diversified changing demographic. The calculator will meet the andragogical needs of the students while building a nourishable community.

Goals

Calculators' operational videos will be developed per designers (Sight Enhancement Systems) operational standards. With the goal of training the organizations' administration, technical, and educational staffers in calculator usage during a preset implementation stage.

Objective

Outcome objective: Establish a learning environment where diverse adults can thrive and transform into confident, motivated, and valued individuals within the community.

Process objective: Ensure that Spanish speaking students that immigrated from afar has the opportunity to assimilate into Americas' culture without losing aspects of their native language.

Evaluation Measures

Graded Assessments and evaluations will be required. Students and educational staffers will have to substantiate achieved knowledge and growth during the implementation stage.

Below you will find important names, dates and places which are included in Figure 1. Identified goals, objectives, accomplishments, and an acquainted description are given in Figure 2, and the financial aspects of the application are described in Figure 3.

Figure 1: '
The Application for Funding

application for funding

Deadline for submission:

Time ___11:59 pm___ Date ___Nov, 17, 2024___

Return by email attachment to:

Contact person ___John Sargent___

PROJECT

Project Title ___The Best Resources___

Name of grant contact ___John Sargent___

Contact's position:

| x Teacher | ☐ Administrator | ☐ Counselor/Other |

School ___Best Resources Community Center___

Project start/end dates ___Start on Jan, 6, 2025 and Ends on Apr, 4,2025___

All projects must be completed by *(date)* ___Apr, 4,2025___

Estimated number of student participants ___25___

Estimated number of staff participants ___3___

Amount requested for this project ___$17,050.00___

Note: Valuable information for grant funding explaining important persons, places, dates and times. Tailored from the technology coordinators handbook, by M. Frazier, Copyright 2012 by ISTE Book Publishing.

Figure 2 '

The Application for Funding (continued)

BUDGET

Itemize your budget according to the following categories and briefly explain your planned spending on the attached spreadsheet template. Return the budget spreadsheet along with your grant application.

1. **Salaries/Stipends** (specify to whom and how much)
2. **Benefits** (must be included for all salaries and stipends; calculate at 12% of salary or stipend)
3. **Transportation** (list separately for student and faculty transportation)
4. **Equipment** (must be essential to the project)
5. **Supplies** (be as specific as possible)
6. **Other** (child care, other special needs, etc.)
7. **Travel**

PROJECT GOALS AND OBJECTIVES

Our goal is to be curtain that all staff is train in using the newly purchased equipment with the objectives to create a learning environment that transforms all student into productive community citizens, while ensuring that no cultural bias exist in the learning process.

PROJECT DESCRIPTION

Include information on the number of sessions involved and the number of contact hours:

The sessions extents for fifteen weeks four days a week with four contact hours a day

Describe the products or accomplishments resulting from this project:

The product (calculator) indulges the adult learners' human activity anagogic aspect of independent learning, incorporating verbal dissemination of mathematical information with a familiar mental connection in English and Spanish dialect using interactive electronic media.

Describe how this project will be evaluated:

Assessing and documenting students mathematical learning transformations.

Note: Continued Valuable information With goals, objectives, a key description, expanded accomplishment, and aimed evaluations, Styled from the technology coordinators handbook, by M. Frazier, Copyright 2012 by ISTE Book Publishing.

Figure 3 '
Grant Budget Form

mini-grant budget

Name _____ John Sargent _____

School _____ Best Resources Community Center _____

Project Title _____ The Best Resources _____

Category	Item	Description/Explanation	Amount
1	Salary	N/A	
1	Salary	N/A	
1	Stipend	N/A	
1	Stipend	N/A	
SALARY/STIPEND TOTAL:			
2	Benefits	N/A	
2	Benefits	N/A	
BENEFITS TOTAL:			
3	Transportation	N/A	
3	Transportation	N/A	
TRANSPORTATION TOTAL:			
4	Equipment	25 Sight Enhancement System's Graphing Scientific Calculator with Dual Language Speech	$17,050.00
EQUIPMENT TOTAL:			
5	Supplies	28 Service & Instruction Manuals	Free Online
5	Supplies	1 YR. Warranty included in price	N/A
SUPPLIES TOTAL:			
6	Other	Instruction Video	$200.00
OTHER TOTAL:			
7	Travel	N/A	
7	Travel	N/A	
TRAVEL TOTAL:			
TOTAL BUDGET REQUESTED:			$17,250.00

Note: Requested funds for Educational Training Equipment, adapted from the technology coordinators handbook, by M. Frazier, Copyright 2012 by ISTE Book Publishing.

References

Carlson, M. & O'NEAL-McElrath, T. (2008), Winning Grants, Jossey-Bass Publications, USA, 3rd Edition

Census Bureau Releases New Educational Attainment Data

Frazier, M., (2012), the technology coordinator's handbook, ISTE Book Publishing, USA, 2nd Edtion

Kumer, P., Pandi Senthil, S., Kumaragurubaran, T., & Chiranjeevi Rahul, V., (2024), Human Activity Recognitions in Handheld Devices Using Random Forest Algorithm | IEEE Conference Publication | IEEE Xplore, **Dehradun, India, DOI: 10.1109/AUTOCOM60220.2024.10486087**

Carlson, M. & O'NEAL-McElrath, T. (2008), Winning Grants, Jossey-Bass Publications, USA, 3rd Edition