

Grant Number 1183

Project Title Full STEAM Ahead!

Please select the **MAIN** curriculum area your grant addresses. Gifted & Talented

Does your grant have a technology component? (Will you have technology equipment, software, etc. in your budget?)

No
 Yes

Primary Contact Information

First Name Karri

Email Karri.Decker@allenisd.org

Confirm Email Karri.Decker@allenisd.org

Last Name Decker

Phone Number 972-396-3016

Campus Cheatham Elementary

Main Subject Advanced Academics

Grade(s) I have co-applicants.

Social Media

Please provide your work-related social media contact information.

Facebook

Twitter @DeckerAIMClass

Other (please specify)

Grant Number 1183

Campus/Student Information

Your campus: Cheatham Elementary

Will other campus' be involved/impacted by this grant?

No
 Yes

Your grade(s):

Will other grades be involved/impacted?

No
 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.)

AIM is a class that covers a Humanities and Science-based, student-led curriculum. The students are taught to take risks, discover, and create. That is what my students do weekly, as they dive into a higher level curriculum and STEAM innovations. My classroom lacks supplies and resources for students engineering solutions to problems. The funds will be used by students to code, build, and innovate. STEAM activities prepare our learners for the future.

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 will be used for all grade level students K-6 in the AIM classroom. They will be used with the AIM curriculum to enhance the learning experience and help students connect their science lessons with real-world experiences. With the materials proposed, the list of project options is limitless. Specific challenges are listed in our curriculum (problem-based learning) for the students to solve and they lead to inquiry and application across the multiple disciplines. Students are provided with open-ended projects options as they play and tinker with the tools provided. Finally, students will have the opportunity to learn creativity and problem solving using a variety of resources. Leadership qualities will be demonstrated by students through self-directed as well as teacher-led; student-led projects and group collaborations.

Project Summary

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

"Imagineering" supplies will create opportunities for students to be producers of content and products and will facilitate to students the idea of entrepreneurship through innovation. This is Problem Based Learning! Students are using 21 Century Skills to improve learning in all walks of life, to be better equipt for future job skills, as well as life skills.

Allen ISD Goals/ TEKS

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

English LA: I.A.2 Generates ideas and gathers information relevant to the topic and purpose, keeping records
Math VI.A and VI.B- Determines types of data, selects and analyzes given information
Science I.C.1 Collaborates on joint projects; 1B1- Designs and conducts scientific investigations in which hypotheses are formulated and tested
Cross-Disciplinary Standards: 1.A1 Engages in Scholarly inquiry and Dialogue and 1.A.2 Accepts constructive criticism and revise personal views when valid evidence
Transforms the traditional classroom into an innovative learning experience that meets the needs of the individual learner in all types of problem-solving situations.

Measurement

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

The focus is for students to work through challenges to become better problem solvers. To measure this, they will be completing the Design process. Do they plan? Do they design? Do they collaborate with team members? Do they work independently to research when needed? Is the PBL- Problem Based Learning project completed in given time? Asking the students to present their findings and what he/ she learned. Final presentation and the end result project will show learning. I also use rubrics to communicate expectations and then grade them according.

Teaching Methods

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

The students work to problem solve design flaws and improve on their product. The students conduct the experiments and then discuss the strengths of each design and ways to improve each design.
Every challenge will be reviewed in advance, students will be taught how to collect and record data for their challenges and how to present findings. Items purchased will also be used with the GT curriculum from the College of William and Mary, as well as the Texas Performance Standards Project, to enhance Humanities and/or Science lessons. The PBL will be introduced that correlates with the AIM curriculum. The High Touch High Tech Hands-on Science activities and lessons will also coordinate with the AIM curriculum, providing another opportunity to connect science with real-world experiences. This will transform the traditional classroom into an innovative learning environment.

Timeline

What is the project timeline and the date of implementation?

This will begin as soon as we can get the items ordered and received in the AIM classroom, and continues throughout the school year. The items bought with the grant money will stay in the classroom and be used year after year. The consumables are what I will provide with classroom budget.

Curriculum/System Support

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

The learning experiences mentioned in this proposal will help the student reach a higher level of problem-solving that can be reached with the regular curriculum. The AIM classroom allows for an extension of creativity and innovation but I do need support with the funding of STEAM supplies. This deepens the understanding of curriculum taught at a higher level, promotes depth and complexity, fosters collaboration, relates classroom learning to the real world, and provides opportunities for experimentation, failure, improvement, and discovery as part of the scientific process in practice.

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

Budget Item	Item Type	Unit Cost	Quantity	Total Cost
Cricut Maker Machine (infinite number of possibilities for grades 1-6!)	Instructional Supplies or Resources	399.0	1	399.0
Velcro, sewing scissors, needles, thread, (basic maker space supplies)	Instructional Supplies or Resources	30.0	1	30.0
Singer Simple Sewing Machine (Walmart) (problem solving and creativity grades 1-6)	Instructional Supplies or Resources	120.0	1	120.0
Blank Game Boards from Bear Books (Enigmas and Math Around Town)	Instructional Supplies or Resources	4.0	15	60.0
Bloxels Games from Amazon (used to create own digital games with iPad app) -- we have 3 of these now....love them! Need more for larger classes	Instructional Supplies or Resources	35.0	2	70.0
Blank Display Boards (trifold 40 x 28 - pack of 30 from Amazon) (Innovations, Enigmas, Math Around Town, Bridge Engineers)	Instructional Supplies or Resources	65.0	1	65.0
Blank Books from Bear Books with lined pages (Silkworm life cycle journals)	Instructional Supplies or Resources	2.0	35	90.0
High Touch High Tech Hands On Science (in-school field trip)	Other Expenses	7.72	50	386.0
Shipping	Transportation	50.0	1	50.0

BUDGET TOTAL 1,270

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

Principal Approval Required

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

First Name	Last Name	Email Address(Completed)
Stephanie	Logan	Stephanie.Logan@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 Karri Decker

Date 01/29/2019

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

I approve

State Change History

- State Change Karri.Decker@allenisd.org
01/30/2019 13:26:58
Submitted
- State Change *****
01/31/2019 13:14:52
Accepted

Grant Status

- Grant Awarded Yes
- No
- Award Amount 870