

General Information

Grant Number	520
Project Title	Makerspace United!
Please select the MAIN curriculum area your grant addresses.	English/Language Arts
Does your grant have a technology component? (Will you have technology equipment, software, etc. in your budget?)	<input type="radio"/> No <input checked="" type="radio"/> Yes
Primary Contact Information	
First Name	Jenny
Email	jenny_amentrout@allenisd.org
Last Name	Armentrout
Phone Number	214-495-6784
Campus	Marion Elementary
Main Subject	Other
Grade(s)	<input type="text" value="K"/>
I have co-applicants.	<input checked="" type="checkbox"/>
Social Media	
Please provide your work-related social media contact information.	
Facebook	
Twitter	@TroutMarionK
Other (please specify)	

Grant Co-Applicants

Additional Grant Applicants			
First Name	Last Name	Campus	Grade
Karen	Abney	Marion Elementary	K-6

Describe details of the project

Grant Number	520
Campus/Student Information	
Your campus:	Marion Elementary
Will other campus' be involved/impacted by this grant?	<input checked="" type="radio"/> No <input type="radio"/> Yes
Your grade(s):	K
Will other grades be involved/impacted?	<input type="radio"/> No <input checked="" type="radio"/> Yes
Please select all grades that will be involved/impacted by the grant.	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6
Project Purpose	

What is the problem, need, or opportunity that this grant will address? Explain **what students will know and be able to do** as a result of this project and/or how a problem will be addresses and/or how a situation improved because of the grant. (500 words or less.)

As Preston Elementary opens, we will be joining the staff as the librarian and the AIM teacher. It is our desire that our students are able to think, question, design, create, and formulate strategies to manipulate the data in their world. It is only then that they will have the foundation to be competitive in the world and be prepared to tackle the bigger challenges facing them in their future. As new staff members, we desire to use Makerspace materials to allow students the opportunity to design and create in a variety of mediums. Students as young as kindergarten and continuing through their elementary years need that foundation to explore and design to prepare them for future STEAM careers and opportunities. Makerspace allows them to problem solve and experiment with STEAM materials in a safe, controlled, exploratory environment.

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 library and the AIM curriculum at Preston Elementary will merge resources to create learning opportunities for every student in the school. All students will have the opportunity to question, explore, and manipulate a variety of Makerspace materials to stretch the imagination to the highest level. Resources in the library will be used to blend the literature foundation with hands-on opportunities to supplement that literature with exploration and integration of skills learned during that library time. Those same resources will be used in the AIM room to problem solve, supplement the curriculum with STEAM focus, and provide weekly challenges to be solved using specific highest level thinking strategies.

Project Summary

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

Makerspace United! is a STEAM focused opportunity for all students to question, design, create, build, and debrief using a variety of hands-on resources. The library and AIM programs will work in tandem to provide the greatest problem solving environment for students to experiment and excel in a variety of fields in order to prepare them with the skills they need in the competitive world that lies before them.

Allen ISD Goals/ TEKS

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

Allen ISD has always been on the cutting edge of innovation. Two of the top priorities of the Strategic Planning goals that the district has embraced are as follows:

1. Transforming the traditional classroom into an innovative learning experience that meets the needs of the individual learner.
2. Transforming the learning environment by increasing the rigor and encouraging innovation so that students become effective problem-solvers.

These Makerspace activities will provide the perfect opportunities for students to problem solve, innovate, and become problem solvers in multiple ways.

Measurement

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

Short term and long term projects will be presented throughout the year to challenge students. Expectations for learning, cooperation, goal setting, and creating will be set prior to each problem solving challenge. Students will be given the opportunity to work individually as well as in small and large groups. The evaluation tool for each piece will look different depending on the project. In each challenge, however, students will be given the opportunity to self-reflect and make changes as necessary. Teacher evaluations and peer input will be incorporated into each piece as well. Students will share their designs and thought processes with both peers and teachers throughout to learn from multiple perspectives. Final outcomes will be discussed and evaluated as each challenge is explored.

Teaching Methods

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

Building prior knowledge, exploration, discovery, problem solving, hands-on creativity, collaboration, critical thinking, self, directed learning, cooperation, differentiation, presenting, and discussion will all be incorporated into these Makerspace challenges and projects. The teacher will give the background and present the problems. The students will be responsible for working collaboratively towards solving the challenges presented. It will be directly correlated to a real world situation.

Timeline

What is the project timeline and the date of implementation?

These Makerspace activities will be ongoing all year long. As soon as the materials arrive, they can be put into use immediately.

Curriculum/System Support

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

Allen ISD has embraced the idea of innovation through STEAM. The STEAM center that is being built will provide an excellent opportunity for our students to experience unique opportunities in an off campus setting. Makerspace United! brings a wide variety of opportunities directly to the campus level where students can explore many of the same topics on a weekly basis. It will serve as a fabulous foundation to build on the campus, and later taken to a deeper level at the STEAM center. As our students become very comfortable in a collaborative, problem-solving, STEAM based setting, the opportunities that await them as they mature and move on to higher education and into their future careers will be wide open!

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
K'Nex classroom construction set	Instructional Supplies or Resources	199.95	1	199.95
Engino deluxe engineering kit	Instructional Supplies or Resources	329.95	1	329.95
Keva maple planks school pack	Instructional Supplies or Resources	299.95	1	299.95
Engino deluxe architecture set	Instructional Supplies or Resources	169.95	1	169.95
Q-Ba-Maze 2.0: Rails builder set	Instructional Supplies or Resources	59.95	1	59.95
STEM machines engineering kit	Instructional Supplies or Resources	79.95	1	79.95
Straws & connecatore: 705 piece set	Instructional Supplies or Resources	59.95	1	59.95
Zoob builderZ-500 piece set	Instructional Supplies or Resources	49.95	1	49.95
Ozobot starter kit	Instructional Supplies or Resources	49.95	3	149.85
iRJLU eXpro XLa0 inch quad core tablet PC	Instructional Supplies or Resources	49.95	3	149.85
Snap circuits pro	Instructional Supplies or Resources	89.99	1	89.99
Sphero 2.0	Instructional Supplies or Resources	129.99	2	259.98
Ollie	Instructional Supplies or Resources	99.99	2	199.98
Bloxels team builder 5 set	Instructional Supplies or Resources	250.0	1	250.0

BUDGET TOTAL 2,349.25

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)
Johnna	Walker	johnna_walker@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 Jenny Armentrout

Date 02/09/2017

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

Approved

History and final disposition of application

State Change History

State Change *****
02/09/2017 11:45:50
Submitted

State Change *****
02/10/2017 08:26:21
Accepted

Grant Status

Grant Awarded Yes
 No

Award Amount 960