

## General Information

Grant Number	634
Project Title	A Place for Makers
Please select the <b>MAIN</b> curriculum area your grant addresses.	Science
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
<b>Primary Contact Information</b>	
First Name	Tiffany
Email	tiffany_dudley@allensd.org
Last Name	Dudley
Phone Number	972-562-1800
Campus	Olson Elementary
Main Subject	Other
Grade(s)	<div style="border: 1px solid black; padding: 5px;">K 1 2 3 4 5 6</div>
I have co-applicants.	<input checked="" type="checkbox"/>
<b>Social Media</b>	
Please provide your work-related social media contact information.	
Facebook	
Twitter	@olsonaim
Other (please specify)	

## Grant Co-Applicants

Additional Grant Applicants			
First Name	Last Name	Campus	Grade
Mavi	Dean	Olson Elementary	Campus Librarian

## Describe details of the project

Grant Number	634
<b>Campus/Student Information</b>	
Your campus:	Olson Elementary
Will other campus' be involved/impacted by this grant?	<input checked="" type="radio"/> No <input type="radio"/> Yes
Your grade(s):	K,1,2,3,4,5,6
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? 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.)

A maker space vision has been brewing for quite a while at our school. To put it simply, a makerspace is a place that allows social interaction while preserving privacy for imaginative tinkering. Our hope is to identify the needs of our students in relation to problem solving, failure and developing a growth mindset, and to meet these needs through a maker space that serves our school's population of over 700 students.

In order to thrive in the 21st century, our students will need to have highly developed critical thinking and problem solving skills along with self-initiative and a drive for success. A maker space can transform learning by affording opportunities that:

- ◆◆◆ Empower all students to take initiative in self-directed learning
- ◆◆◆ Promote innovation and creativity
- ◆◆◆ Encourage students to ask questions and seek to find answers
- ◆◆◆ Connect students to the community and real life problems
- ◆◆◆ Provide students with the necessary support to take risks in finding solutions; and
- ◆◆◆ Foster a growth mindset through failure and an internal drive for improvement in a safe 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.)

With the materials proposed, the list of project options is limitless. In some instances, specific challenges will be provided for students to solve, which will then lead to further inquiry and application across multiple disciplines. In other stations, students might be provided with open-ended project options as they play and tinker with the tools provided. Finally, students will have the opportunity to learn the basics of coding and programming using a variety of resources available.

With these activities in mind, a makerspace of this caliber will require leadership from all involved including participating students, mentors, adults, and teachers. The vision for this maker space will require demonstration of these leadership qualities from:

- ◆◆◆ Students through self-directed as well as teaching buddy led activities;
- ◆◆◆ Community/Parent mentors as they coach students through the problem solving process providing support from their own experiences in life and work; and
- ◆◆◆ Teachers who will have full use of makerspace tools and space to enrich state mandated curriculum through whole or small group activities

### Project Summary

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

A Makerspace constitutes a place designated for gathering together to make, create, invent, tinker, innovate and problem solve using a variety of resources. Bringing students, school staff and parents/community members to a common place such as the school library to participate in critical and creative thinking activities will transform the learning environment. We already have the space, and through this grant we will have the materials necessary to make this vision a reality.

### Allen ISD Goals/ TEKS

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

A campus Makerspace aligns with district mission of empowering students by cultivating innovation and supporting the following goals:

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

### Measurement

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

The program's effectiveness will be evaluated through parent/student/teacher feedback and the documentation of learning students will produce including planning pages, photos and videos of progress along with written reflections upon completion of a

challenge that will also encourage questioning to inspire future endeavors.

### Teaching Methods

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

The GT Specialist, Media Resource Specialist (Campus Librarian) and parent volunteers will facilitate small group stations in the library using innovative, engaging challenges that will encourage higher level thinking and motivate students to create successful solutions. Volunteers will transform these learning opportunities by providing support for students within their areas of expertise. Furthermore, weekly schedules will be set up to accommodate each grade level in addition to providing flexible times for drop in learning. Makerspace resources will also be available for teacher check out through the math/science resource library for use in classroom station and/or small group instruction.

### Timeline

What is the project timeline and the date of implementation?

The vendor(s) for this program is approved with the district and would have supplies delivered within 2 weeks of being ordered. Our Makerspace would be up and running by the end of October 2016 and materials purchased with this grant would be reused every year.

### Curriculum/System Support

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

Overall, the learning experiences mentioned in this proposal will have a much more profound effect on students' life experiences and development of problem solving skills than can be provided within the scope of the current state curriculum. However, Makerspace activities and projects can also enrich classroom learning concepts by:

- ◆◆ Deepening students understanding of content through higher level questioning
- ◆◆ Promoting depth of thinking through creative problem solving and innovation
- ◆◆ Fostering collaboration and social interaction
- ◆◆ Relating classroom learning to real life problems
- ◆◆ Providing opportunities for experimentation, failure, improvement and discovery as part of the scientific process in practice

## 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
Basic Makerspace Tools and Supplies (including but not limited to: screwdrivers, batteries, alligator clips, binder clips, craft sticks, Velcro, sewing scissors/needles/thread, playdoh, etc)	Instructional Supplies or Resources	300.0	1	300.0
Dash and Dot Wonder Workshop Wonder Pack	Instructional Supplies or Resources	230.0	1	230.0
Little Bits STEAM Student Set (Up to 4 students)	Instructional Supplies or Resources	300.0	1	300.0
Mbot version 1.1 (x2)	Instructional Supplies or Resources	190.0	1	190.0
Singer 3232 Simple Sewing Machine	Instructional Supplies or Resources	107.0	1	107.0
Keva Contraptions Set	Instructional Supplies or Resources	20.0	1	20.0
Keva Maker Bot Maze	Instructional Supplies or Resources	35.0	1	35.0

BUDGET TOTAL 1,182

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

Please Explain

Campus funds will be allotted for the organization and management of materials along with providing a variety of consumable materials to incorporate, but unfortunately cannot cover the total cost of resources currently needed to get our makerspace up and running. Due to the innovative nature and size of our grant along with the amount of students it will impact, we felt it was worthy of requesting funds from the Foundation.

### 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)
Amanda	Reyes	amanda_reyes@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 Tiffany Dudley

Date 03/14/2017

### 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

The opportunity for this innovative learning experience will be wonderful for our students.

### History and final disposition of application

State Change History

State Change \*\*\*\*\*  
03/14/2017 12:22:52  
Submitted

State Change \*\*\*\*\*  
03/14/2017 14:58:16  
Accepted

Grant Status

Grant Awarded  Yes  
 No

Award Amount 550