

## General Information

Grant Number	501
Project Title	Rubik to the Rescue!
Please select the <b>MAIN</b> curriculum area your grant addresses.	Gifted & Talented
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	Karri
Email	karri_Decker@allensd.org
Last Name	Decker
Phone Number	972-236-0600
Campus	Cheatham Elementary
Main Subject	Math - Elementary
Grade(s)	<input type="text" value="5"/>
I have co-applicants.	<input type="checkbox"/>
<b>Social Media</b>	
Please provide your work-related social media contact information.	
Facebook	
Twitter	@DeckerAIMClass
Other (please specify)	

## Describe details of the project

Grant Number	501
<b>Campus/Student Information</b>	
Your campus:	Cheatham Elementary
Will other campus' be involved/impacted by this grant?	<input checked="" type="radio"/> No <input type="radio"/> Yes
Your grade(s):	5
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"/> 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.)

GT learners and high achieving students often will not take risks when learning for fear of failure. I try to teach and establish an environment that is safe to take risks in learning and discovery. I am always looking for ways to teach students that it's OK to try something new, and take responsible risks. If they aren't successful with the outcome or goal, it's important to keep pushing and trying. Rubik's Cube is a great way to teach life lessons and 21st century skills such as focus, following directions,

memorization, sequencing, problem solving, critical thinking, and perseverance AND the "Power of Yet!" This growth mindset helps to change student thinking from "I don't know how or I can't...." to "I don't know YET, but I will!"

### 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.)

Each student will have a Rubik's cube to explore. They will be able to solve for math TEKS, teaching area, perimeter, volume, faces, and vertices. not only Geometry, but general math, and algebra can be taught. Learning and Innovation Skills including Critical Thinking and Problem Solving.

- o Exercising sound reasoning in understanding
- o Understanding the interconnections among systems
- o Identifying and asking significant questions that clarify various points of view and lead to better solutions
- o Framing, analyzing and synthesizing information in order to solve problems and answer questions
- o Acting on creative ideas to make a tangible and useful contribution to the domain in which the innovation occurs
- o Life and Career Skills
- o Initiative & Self -Direction
- o Defining, prioritizing and completing tasks without direct oversight
- o Utilizing time efficiently and managing workload
- o Leadership & Responsibility
- o Using interpersonal and problem -solving skills to influence and guide others toward a goal

Rubik's cubes can be used through out the year during many lessons, or as a creative problem solving challenge. This grant would be used year after year, not just a one time lesson.

### Project Summary

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

Rubik's Cube Education is a great way to teach not only math, but also life lessons and 21st century skills such as focus, following directions, memorization, sequencing, problem solving, critical thinking, and perseverance. When teachers make learning fun and rigorous, students discover greater confidence and self-esteem, and are motivated beyond the classroom.

### Allen ISD Goals/ TEKS

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

111.6. Grade 4,  
111.7. Grade 5 Geometric Operations (5-9)B. problem solving, analyzing,  
111.26. Grade 6, (4)

### Measurement

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

Rubrics are often used in AIM. I will seek out and develop rubrics for each Rubik's cubes lesson, based on the objective of the lesson. If the lesson is to teach risk taking, the student's will be graded on that objective. If it involves specific objectives such as finding the area, volume, face, vertices, they will graded on those skills. There will be class discussion and group challenges to solve problems. Measurement will vary.

### Teaching Methods

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

I have purchased a few rubrik's cubes from teh company, "You Can Do the Cube" to use with my classes. I don't have enough for my students. The program has teacher's guides and lessons on how to teach the solution. Once kids know how to solve it, they can be given challenges to "Solve the top layer, or Solve the middle layer, or..." They can create mosaics out of the cubes, they can be taught geometry, relationships in algebra, and just individually problem solve, without competing. All types of learning modalities can be met through this type of kinesthetic, visual learning. I would be teaching risk taking, motivation, and perseverance. It would carry beyond classroom to self esteem and confidence which gets to my original goal of the growth mindset, The Power of Yet! and taking risks in learning.

### Timeline

What is the project timeline and the date of implementation?

As soon as the Rubik's Cubes come in, they can be used all throughout the year. This is not a one time or one year project, these are durable manipulatives that should last forever.

#### Curriculum/System Support

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

The Power of YET! is a way to teach RIGOR which is brain based and teaches life long learning skills. MY AISD AIM curriculum is written to teach rigor and focuses on depth of knowledge. One of our class goals is risk taking. These challenging Rubik's Cube will teach life lessons and 21st century skills such as focus, following directions, memorization, sequencing, problem solving, critical thinking, and perseverance.

#### 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
Printed Instructional Curriculum	Instructional Supplies or Resources	102.94	1	102.94
Add'l Rubik's Cubes (12)	Instructional Supplies or Resources	62.98	1	62.98
BUDGET TOTAL		165.92		

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)
Stephanie	Logan	Stephanie_Logan@Allensisd.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 01/24/2017

#### 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

I approve this grant for our AIM teacher.

#### History and final disposition of application

State Change History

State Change \*\*\*\*\*  
01/24/2017 10:12:42  
Submitted

State Change \*\*\*\*\*  
01/26/2017 20:54:01  
Accepted

**Grant Status**

Grant Awarded  **Yes**  
 **No**

Award Amount 166