



Foundation For Allen Schools Grant Application

Scholarship Fund Amount: \$0

Application #: AP232783

Applicant First Name: Catherine

Applicant Last Name: Ziebold

Applicant Email Address: catherine.ziebold@allenisd.org

Gender:

Cell Phone #:

High School:

Post Secondary School:

Application Status: Submitted

Application Questions and Answer

Question	Answer
Preferred name/name that you go by:	Catherine
Best phone number to reach you at:	+12144956765
Campus	Kerr Elementary School
Grade(s)	6
I have co-applicants:	No
Please provide your work-related Facebook contact information.	N/A
Please provide your work-related Twitter contact information.	N/A
Name of Grant	STEMscopes for 6th Grade
Please select the MAIN curriculum area your grant addresses.	Science / STEAM

Does your grant have a technology component?	No
Will other campuses be involved/impacted?	No
Will other grades be involved/impacted?	No
How many students will be involved in this grant?	121
Are there any additional funds available for this grant?	No
What is the problem, need or opportunity that this grant will address? Describe the impact of this project on your students.	Although the district furnishes a sixth grade Science curriculum which includes Signature Labs (approximately one to two per unit), research shows students learn best through hands-on opportunities that deepen their understanding of science concepts. Currently, the district primarily depends on STEMscopes as its curriculum resource for K-5th grade. Meanwhile, the district curriculum document suggests the Texas Science Fusion textbook as a resource. However, the textbook lacks hands-on activities, while, STEMscopes offers an abundance of interactive experiences.
How will the project or program be implemented? Describe activities and tasks. Who is the target population and in what ways will they benefit?	Upon receipt of STEMscopes, preferably at the beginning of the school year, lesson plans will incorporate hands-on activities through stations to further deepen the given science concepts. While the use of STEMscopes provides benefits to all students, SPED and ELL students would see further benefits.
Provide a brief summary for use on the Foundation's website and social media.	STEMscopes will allow the 121 sixth grade students at Kerr Elementary to engage more thoroughly in scientific exploration and discovery. Also, since STEMscopes is online, students can access at home through the portal.
	This STEMscopes request supports the following TEKS: (6.2) Scientific investigation and reasoning. The student uses scientific practices during laboratory and field investigations. The student is expected to: (A) plan and implement comparative and descriptive investigations by making observations, asking well-defined questions, and using appropriate equipment and

<p>Which Allen ISD goals/TEKS does this project support? Please provide 2 or 3 examples.</p>	<p>technology; (B) design and implement experimental investigations by making observations, asking well-defined questions, formulating testable hypotheses, and using appropriate equipment and technology; (C) collect and record data using the International System of Units (SI) and qualitative means such as labeled drawings, writing, and graphic organizers; (D) construct tables and graphs, using repeated trials and means, to organize data and identify patterns; and (E) analyze data to formulate reasonable explanations, communicate valid conclusions supported by the data, and predict trends. (6.3) Scientific investigation and reasoning. The student uses critical thinking, scientific reasoning, and problem-solving to make informed decisions and knows the contributions of relevant scientists. The student is expected to: (A) analyze, evaluate, and critique scientific explanations by using empirical evidence, logical reasoning, and experimental and observational testing, to encourage critical thinking by the student; (B) use models to represent aspects of the natural world such as a model of Earth's layers; (C) identify the advantages and limitations of models such as size, scale, properties, and materials; and (D) relate the impact of research on scientific thought and society, including the history of science and contributions of scientists as related to the content.</p>
<p>What specific measurements will be used to evaluate the effectiveness of the project?</p>	<p>To measure the effectiveness of the use of STEMscopes, CERs (claim, evidence, and reasoning) will be implemented with different hands-on activities. Also, unit assessments will demonstrate understanding science concepts (TEKS) taught.</p>
<p>What teaching methods will be used to implement this project?</p>	<p>The teaching methods needed to implement STEMscopes for 6th grade is minimal since most students have already experienced it in lower grades. However, to ensure all students understand how to access and use STEMscopes, the teacher will model, as appropriate. Once familiar with accessing the website, the teacher will, in some cases, allow the students to explore with minimal guidance.</p>
<p>What is the project timeline and the date of implementation?</p>	<p>Ideally, the use of STEMscopes will begin at the beginning of the 2020-2021 school year.</p>

<p>Explain how this idea or project enhances/supports Allen ISD curriculum or existing systems.</p>	<p>The use of STEMscopes for 6th grade supports the Allen ISD curriculum since it is already used for younger grades. Both the Science Instructional coach, Crystal Slaton, and Science Instructional Specialist, Jenn Miller suggested the use of STEMscopes. The best way to learn science is to do science and STEMscopes offer more hands-on activities to do so.</p>
<p>Total Grant Budget Requested:</p>	<p>600</p>
	<p><i>C. Bee</i></p>

Project Budget Set Number 1

<p>Question</p>	<p>Answer</p>
<p>Item Type</p>	<p>Technology</p>
<p>List item to be purchased under item category:</p>	<p>Subscription to STEMscopes for 6th Grade</p>
<p>Unit Cost</p>	<p>5</p>
<p>Quantity</p>	<p>120</p>
<p>Total cost of items in this category:</p>	<p>600</p>