



Foundation For Allen Schools Grant Application 2021

Scholarship Fund Amount: \$0

Let's get to know you!

Please provide your work-related Twitter contact information.	
Please provide your work-related Facebook contact information.	
I have co-applicants:	No
Best phone number to reach you at:	+19407817734
Campus	Curtis Middle School
Grade(s)	8

Additional Co-Applicants

Campus	Curtis Middle School
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Project Information

Are there any additional funds available for this grant?	No
Will other grades be involved/impacted?	No
Will other campuses be involved/impacted?	No
Does your grant have a technology component?	No
Please select the MAIN curriculum area your grant addresses.	Science / STEAM
How many students will be involved in this	

grant?	600
Name of Grant	Blinded by the light, moon, and physics!

Project Information Continued

<p>Provide a brief summary for use on the Foundation's website and social media.</p>	<p>Physics "springing" to action, bringing the moon into the room, and breaking the light bring science to life for students to “see” science as they “do” science.</p>
<p>How will the project or program be implemented? Describe activities and tasks. Who is the target population and in what ways will they benefit?</p>	<p>The spring scales will be utilized during our physics unit. We have many labs which require students to calculate force, however; with the use of the spring scales, we would be able to feel and see Newtons laws in action. Students would be able to feel the resistance an object has and see the newtons of force that object is pulling back on them. The moon in my room will be used as a part of teaching the moon phases. Because we teach during the day, we as a class don't get the chance to experience the moon first hand. With this tool, it would be just like staring into the night sky in our classroom. We could use this as an engager or warm-up, teacher led activity, student station, or many other ways. The spectrosopes would aid in our district signature lab for stars and light. These handheld spectrosopes provide students with a way to break down light into its elemental spectral fingerprint. This gives them an idea of how scientists determine what stars are made of. All 8th grade students would be impacted by these tools.</p>
<p>What is the problem, need or opportunity that this grant will address? Describe the impact of this project on your students.</p>	<p>This grant would help all 8th grade students in three different areas of study. The spring scales would allow for students to be actively engaged in hands-on physics labs, seeing the force in Newtons on objects based on their mass. The Moon In My Room would enhance student learning by creating an authentically detailed lunar landscape in each classroom showing all phases of the moon. It also includes a guided tour to the moon and beyond. The spectrosopes would provide students with a visual of light being broken down into its elemental form. The smartphone spectrosopes would allow teachers to model</p>

	<p>and identify elements in light, and help students understand easier and more efficiently by providing that example.</p>
<p>Which Allen ISD goals/TEKS does this project support? Please provide 2 examples.</p>	<p>8.6(A) demonstrate and calculate how unbalanced forces change the speed or direction of an object's motion 8.7(B) demonstrate and predict the sequence of events in the lunar cycle 8.8(C) identify how different wavelengths of the electromagnetic spectrum such as visible light and radio waves are used to gain information about components in the universe These resources also support the district goal of Empowered Learning as our students develop their skills and grow in the area of science.</p>
<p>Explain how this idea or project enhances/supports Allen ISD curriculum or existing systems.</p>	<p>These projects enhance the Allen ISD curriculum by providing students hands on learning opportunities and visuals through small group settings to enrich the students learning in each unit needed. The spring scales will give students a hands on feel for the unbalanced force in Newtons they will experience in our lab. The Moon In My Room will allow students to explore our moon phases inside the classroom as if they were looking at the moon outside. It will also allow for deeper, more rigorous thought about our moon phases. The smartphone spectrosopes will give teachers an awesome interactive tool to help students explore our district signature lab, while the quantitative student spectrosopes will allow students the ability to engage in our district signature lab to see the spectral analysis of each elemental light we provide. Each of these tools help us create a culture of excellence in our classrooms where students are given tools to engage them and support their learning.</p>
<p>What is the project timeline and the date of implementation?</p>	<p>All learning instruments will be used throughout the school year 2021-and beyond.</p>
<p>What teaching methods will be used to implement this project?</p>	<p>1) Modeling / demonstrating and direct teaching each TEKS 2) Providing guided and independent practice using the equipment. 3) Providing small group, purposeful talk with guided questions surrounding the TEKS and</p>

	content 4) Students will be working in small groups as well as independently to collaborate and discuss data collected and observed.
What specific measurements will be used to evaluate the effectiveness of the project?	Students will use both the spring scales and the spectrosopes in labs guided toward mastery of their specific TEKS. Each lab is graded and students receive feedback on their learning to make sure the learning was effective. The Moon In My Room will be used as a part of modeling or a station and can be used to demonstrate effectiveness through warm ups or other formative assessment data collected. Our goal is to increase the understanding of moon phases and changes as students often struggle with this concept.

Project Budget

Total Grant Budget Requested:	843.25
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Almost done!

	
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Project Budget Set Number 1

Question	Answer
Item Type	General Supplies
List item to be purchased under item category:	Spring scales
Unit Cost	6.95
Quantity	40
Total cost of items in this category:	278.00

Project Budget Set Number 2

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Question	Answer
Item Type	General Supplies
List item to be purchased under item category:	Moon In My Room
Unit Cost	33.95
Quantity	5
Total cost of items in this category:	169.75

Project Budget Set Number 3

Question	Answer
Item Type	General Supplies
List item to be purchased under item category:	Smartphone Spectroscope
Unit Cost	2
Quantity	63.50
Total cost of items in this category:	127.00

Project Budget Set Number 4

Question	Answer
Item Type	General Supplies
List item to be purchased under item category:	Quantitative Spectroscopes
Unit Cost	8.95
Quantity	30
Total cost of items in this category:	268.50