Proposal Information

Project Information

Title of Program or Project	Using Galileoscopes to Enhance the PUSD/CIS Physics of the Universe Course and Help CIS and PALS Students and Staff Observe the Solar Eclipse of April 8, 2024
Primary Subject Area	Science
Grade Levels Served	9-12 plus PALS Adult Students
Number of Students Served	250
Amount Requested (maximum request is $1,000 for single teacher, $2,000 for groups)	1000

Project Descriptions

Briefly Describe Your Project (1-2 sentences)

This project provides students with the ability to safely make detailed observations of the solar eclipse of Monday, April 8, 2024, and also use the equipment for other assignments in their required PUSD/CIS Physics of the Universe course. The project also enables other CIS students and PALS students and other attendees at the event to be able to experience the eclipse safely.

Needs: Tell us about your students. What specific needs and strengths does this project address?

Many CIS and PALS have great capacities and abilities, including the capacity and ability to do science and challenging activities. This project would provide opportunities for these students to experience astronomy and physics in exciting ways.

Goals: What are the goals and anticipated outcomes of your project?

The students can benefit from this unique hands-on experience, and this may help inspire in them a desire to pursue astronomy or physics in their post-secondary education. The CIS students taking Physics of the Universe, a required PUSD course, would have their course experience enhanced greatly, and complete challenging assignments using the equipment requested. It is expected that this would improve their engagement in the course and in science in general. It is also hoped that other CIS students would desire to enroll in the course after attending the event and experiencing the eclipse, and it is expected that PALS students and other attendees at the event will have a positive experience.

Project: Describe the project, including activities and/or instructional materials you will use

10 CIS Physics of the Universe course students will assemble Galileoscopes with sun filters and sun shades attached and mount them on the tripods, and safely observe the solar eclipse of Monday, April 8, 2024 as an assignment in their course. This will occur on the CIS (formerly Wilson MS) football field. All approximately 200 CIS students, the approximately 45 PALS students, their teachers and other CIS and PALS staff will be invited to look through the telescopes and use the eclipse glasses to observe the eclipse. The eclipse will be visible from 10:06 AM to 12:22 PM in our area. PUSD parents and partners who are astronomers will be invited to attend and set up their telescopes as well. In addition, students from other PUSD schools will be invited to attend the event.

Evaluation: Keeping in mind your goals and outcomes, how will you measure the success of the project?

The success of the project will be measured by analysis of the student assignments that will be submitted for their CIS Physics of the Universe course. The students will complete assignments for the eclipse observation and also complete other assignments in the course using the telescopes. The quality of the assignments submitted will be analyzed to determine the success of this part of the project. The project would be considered more successful if more CIS students choose to enroll in the course after attending the eclipse event. PALS students and other attendees at the eclipse event will also be asked to respond to a question about their experience at the event and if possible complete a short survey about their experience observing the eclipse. The responses and survey results will be collected and analyzed to further measure the success of the event.

Budget: Include an itemized listing with prices of instructional materials and/or equipment.

10 Galileoscopes and 10 filters and 10 sunshades = $360

10 tripods = $229.50

200 eclipse glasses = $258

Arkansas state tax @ 9.75 % = $82.63

Shipping and handling (est.) = $40

Total budget = $970.13

If your total budget is greater than the maximum award, how will you get the additional funds necessary to complete your project?

N/A

Please upload any additional documents below. All must be contained in one 5mb file.	Gallieoscopes invoice.pdf

Required Statement

Approval

I/We have received approval for this grant request from my/our Supervisor/Principal and agree to the statement above.	I/We Agree
Supervisor/Principal First Name	
Supervisor/Principal Last Name	
Supervisor/Principal Email Address	