

Record # 212 Date Submitted: 2011-04-12 10:11:49 My principal has reviewed: Yes			
Project Name: Future Galileos Project Type: ScienceTechnology Explain Category:			
This Is a Mini Grant Resident Name: Email: Telephone:			
Grades: 5th			
Number of Students 65			
DESCRIPTION: Fifth grade students will be given the opportunity to have a greater understanding of our sky, constellations and planets. With this grant, we will host the West Hartford Children's Museum STARLAB portable planetarium for each fifth grade classroom so that children learn more detail about the solar system. Students will also receive guided instruction concerning the earth, other planets, the sun, the moon and constellations using Google Sky and the new telescopes and GPS star trackers. Students and their families will have the opportunity to experience the wonders of astronomy outside of the traditional school day during an "Star Gazing Party" held at our school. We believe that this project will help to prepare students to live and work in a world that is increasingly scientific and technical in nature.			
GOALS: <ul style="list-style-type: none"> 1. Generalize that optical tools, such as binoculars, telescopes, eyeglasses or periscopes, change the path of light by reflecting or refracting it. 2. Construct simple periscopes and telescopes, and analyze how the placement of their lenses and mirrors affects the quality of the image formed. 3. Evaluate the best optical instrument to perform a given task. 4. Observe and record the moon's appearance over time and analyze findings to describe the cyclical changes in its appearance from Earth (moon phases). 5. Relate the moon phases to changes in the moon's position relative to the Earth and sun during its 29-day revolution around the Earth. Students will explore the planets, their moons, comets, robot space probes and the latest findings from NASA. Students will record nightly observations of the moon in a moon journal and articulate the phases. (CT State Science Standard 5.3.a. The positions of the Earth and moon relative to the sun explain the cycles of day and night, and the monthly moon phases.)			
TIME LINE: Students will be exposed to the equipment in October and have the STARLAB experiences in November. Students will then host families during our science and technology night that will occur in late fall.			
EVALUATION: Students will practice communication in scientific language and draw deeper understanding from the observations of their team members through journal entries in their astronomy journals. Student knowledge will be assessed also through the end-of-unit assessments relating to the Sun, Earth and Moon, and by the CMT science assessment. Success will be measured through strong participation and involvement in our "Star Gazing Party" and through comments on our Astronomy blog.			
Amount Requested: \$1746.60 Other Requested:			
BUDGET	AMOUNT	DESCRIPTION	SOURCE
Materials			
Equipment	1236.60	Celestron SkyScout Personal Planetarium (2 @ \$243.86), Orion SkyQuest XT8 Classic Telescope (2 @ \$329.95), Orion Universal Camera Adapter (\$36.95), Orion T-ring for Nikon Camera (\$20.95), Nigh Sky Star Wheel (3 @ \$10.36)	www.amazon.com
Supplies			
Honoraria			
Travel			
Shipping	60		
Mounting			
Installation			
Other 1	450	Portable STARLAB visit from WH Children's Museum	
Other 2			
Total	1746.60		
Reason I didn't submit report: The grant is currently in progress and the final report will be submitted in early May.			
I am applying for Three grants Yes, I will submit an evaluation. Yes, you have my permission to use my application.			

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