

2019 – 2020 Grants for Great Ideas

#132

* I certify that I have read and understand the GFGI program guidelines

* I certify that I am able to provide data that satisfies the above reporting requirements

* I certify that I will comply with the above expenditure reporting requirements

School Name: * Lake Orienta Elementary School

Teacher Submitting Grant Application: * 

Please list any additional teacher associated with this grant project:

Phone Number 

SCPS Email Address: * 

Select a Grant Category: * Arts

Project Title: * The Science of Ceramics

Total Amount Requested: *

Grade Level(s) Served: *

Project Start Date: Friday, November 1, 2019

Number of Students Impacted: * 650

Number of low performing students: 292

Program Summary: * All of my students will be learning about the various scientific aspects of firing ceramics, while also learning and demonstrating the various creative problem-solving skills inherent in the process of building their works of art. This will occur in the art room, but I will work with coaches and teachers to build extensions of classroom concepts to foster discussion in the science classroom.

Statement of Need: * Our school has a title one designation, with 73% of our students receiving free or reduced lunch. 45% of our students received "below proficient" scores in science in the 2018–2019 school year. In the area of the arts there are a large number of students who have never experienced working with clay and glazes to create usable art.

Project Goals: * This is a large-scale unit project. Each grade level will have specific needs within their science content. For example, the 5th grade science standard SC.5.P.9.1 asks that students "investigate and describe that

many physical and chemical changes are affected by temperature." This will be a main idea throughout the firing and glazing process. By the end of each lesson, students should be able to see a link between science and the arts, and to address a specific scientific goal through the lens of the arts.

Program Activities: *

- We will be researching the properties of clay, including its origins, the scientific reason for its plasticity, and its historical uses.
- While creating our pieces, we will focus on the specific message that our work conveys students will be able to compare utilitarian purposes for ceramics with decorative properties, which links directly with several Social Studies Standards.
- Students will create vessels, decorative plaques, wearable art, and sculpture.
- We will be learning the process of drying and firing clay, as well as assessing student understanding and application of this process. This touches on standards relating to physical changes (water to vapor) and chemical changes, from clay and glaze to hardened ceramic metakaolin with altered mineral properties in the glaze. Students will understand the process of firing to maximize strength and decrease cracking. This link between science and creativity is at the core of any good STEAM program.

Evaluation Plan: *

Each group will have reflective and grade-level appropriate evaluations of their completed pieces in order to gage success. 5th grade will complete a flow chart assessment describing the firing process, along with a critique of their work. On my end, I will be using anecdotal evidence to measure student engagement and understanding.

Please attach your completed budget template here: *



[201920grantsforgreatideasbudgetform.xlsx](#)
11.29 KB · XLSX

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 - I certify that I am able to satisfy all program requirements, and agree to all listed terms

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2019 - 2020 Grants for Great Ideas Budget Form

Category	Item List:	Cost:
Classroom Matierals:		
Program Supplies:	Blick Talc Free White Clay, 50lbs Amaco Teacher's Palette Light Glazes Jungle Gems Class Pack #1 Tacklon Specialty Set of 72 Suede Lace Beige, 75 ft Pearlex Pigment 6 color Sampler Paint Scrapers Set of 4 Sponge Ums Package of 4	\$858.60
Computer Software:		
Computer Hardware:		
Other Equipment:		
Printing:		
Shipping:		

Total: \$858.60