

Grant Number 1012

Project Title All Hands on Science!

Please select the **MAIN** curriculum area your grant addresses. ScienceDoes your grant have a technology component? (Will you have technology equipment, software, etc. in your budget?)
 No
 Yes

Primary Contact Information

First Name Cherry

Email cherry.ertsos@allenisd.org

Confirm Email cherry.ertsos@allenisd.org

Last Name Ertos

Phone Number 972-908-4000

Campus Lindsey Elementary

Main Subject Science - Elementary

Grade(s) K

I have co-applicants.

Social Media

Please provide your work-related social media contact information.

Facebook n/a

Twitter @CherryErtos

Other (please specify) n/a

Additional Grant Applicants

	First Name	Last Name	Campus	Grade
Cherry		Ertos	Lindsey Elementary	K
Melissa		Hopson	Lindsey Elementary	K
Kristi		Hutchison	Lindsey Elementary	K
Amy		Pritschow	Lindsey Elementary	K
Jennifer		Sessums	Lindsey Elementary	K
Ashlee		Trotter	Lindsey Elementary	K

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Campus/Student Information

Your campus: Lindsey Elementary

Will other campus' be involved/impacted by this grant?

No
 Yes

Your grade(s): K

Will other grades be involved/impacted?

No
 Yes

Project Purpose

What is the problem, need or opportunity that this grant will address? Describe the impact of this project on your students. (500 words or less.)

"It's magic!" squealed a kindergartner as she experimented with a magnet. Getting science tools into the hands of our youngest learners is a sure way to spark their interest in exploring and experimenting with the world around them. Hands-on science encourages our learners to DO rather than observe science.

The purpose of the All Hands on Science project is to involve students in hands-on and process-based experiences to increase their engagement and achievement in science. What we experience firsthand is what we comprehend most thoroughly, and knowledge retention skyrockets when students not only listen and observe, but also personally experience and experiment with science tools and materials. By providing them these tools and materials, we empower students to literally "take learning into their own hands", and the result is that they are motivated to learn the content more in-depth because of their personal engagement with it.

The goal of All Hands on Science is to promote positive attitudes toward and deeper understanding of science content while building critical thinking skills and verbal and written expression related to science through experimenting, discussing the content, and recording findings in science journals.

Lindsey Elementary serves approximately 132 kindergarten students in six classrooms, and teachers often have to hunt for, borrow, and then share science materials so that our students can have a more personal experience with science. Some of the materials are scarce and not all students get as rich an experience in science as they deserve. Acquiring basic science tools for our classrooms will greatly enhance our students' engagement with science and build a stronger foundation for their understanding of science. We are eager to get more science tools and materials into our learners' hands to spark a lifelong excitement about science.

Project Description

How will the project or program be implemented? Describe activities and tasks.
 Who is the target population and in what ways will they benefit? (500 words or less.)

Having science materials and tools in the hands of our students will allow for more engaging science explorations. Having enough hand lenses, magnets, and 3-D shapes for students to use in investigations will provide richer lessons in our content.

Lindsey Elementary has an increasingly diverse population. We have a sizable number of students with English as their second language, with a number of them identified as at-risk. As their teachers, we desire that all of our students achieve at grade-level or higher. This will be attainable if we can provide students with readily available materials that promote genuine learning.

The non-consumable items we are seeking funding for will be used for years to come and will help put our students on a path of learning through investigation and experimentation.

Project Summary

Provide a brief summary for use on the Foundation's website and social media. (2-3 brief sentences)

All Hands on Science will allow the 132 kindergarten students at Lindsey Elementary to engage more thoroughly in scientific exploration and discovery by putting science tools and materials into their hands. These science tools, including hand lenses and magnets, will be used by hundreds of students in the years to come.

Allen ISD Goals/ TEKS

Which Allen ISD goals/TEKS does this project support? Provide only two or three examples.

All Hands on Science supports the following process and content standards:

K.1 Scientific investigation and reasoning. The student conducts classroom and outdoor investigations following home and school safety procedures and uses environmentally appropriate and responsible practices.

K.2 Scientific investigation and reasoning. The student develops abilities to ask questions and seek answers in classroom and outdoor investigations.

K.3 Scientific investigation and reasoning. The student knows that information and critical thinking are used in scientific problem solving.

K.4 Scientific investigation and reasoning. The student uses age-appropriate tools and models to investigate the natural world.

K.2(B) plan and conduct simple descriptive investigations such as ways objects move.

K.3(C) explore that scientists investigate different things in the natural world and use tools to help in their investigations.

K.6(B) Force, motion, and energy. The student knows that energy, force, and motion are related and are a part of their everyday life. The student is expected to:

-explore interactions between magnets and various materials;

Measurement

What specific measurements will be used to evaluate the effectiveness of the project? (500 words or less)

Teacher observation of student learning
 Science journal entries
 Progress monitoring assessments
 Small group conferences with students
 Formal and informal end of unit assessments.

Teaching Methods

What teaching methods will be used to implement this project? (500 words or less.)

"Good science teaching involves facilitation, collaborative group work, and a limited, judicious use of information giving."
 ~Best Practice: New Standards for Teaching and Learning in America's Schools

Science in our classrooms promotes active participation and is implemented daily. A mini-lesson guides students toward the focused objective through the use of tools, literature, and embedded videos. The students are encouraged to construct a hypothesis, explore and test the hypothesis, ask questions, and compare and document findings in personal science journals.

Timeline

What is the project timeline and the date of implementation?

Materials will be used starting with the 2019-2020 school year.

Since they are non-consumable, hundreds of future students will benefit in the years ahead.

Curriculum/System Support

Explain how this idea or project enhances/supports Allen ISD curriculum or existing systems.

"All Hands on Science" will provide the resources and tools to empower student exploration and learning. It will promote a deeper engagement with science content, empower students in self-directed learning, and foster a spirit of curiosity that will extend learning beyond the classroom.

Budget Details ** All awarded funds will be available by September of the next school year.

Budget Item	Item Type	Unit Cost	Quantity	Total Cost
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Budget Item	Item Type	Unit Cost	Quantity	Total Cost
ETA Hand2Mind 8" Magnetic Wands (set of 6)	Instructional Supplies or Resources	11.99	6	71.4
Lakeshore Magnet Kit	Instructional Supplies or Resources	59.99	6	359.94
Hand magnifiers (pack of 20)	Instructional Supplies or Resources	9.99	7	69.93
3D Geometric Foam Shapes	Instructional Supplies or Resources	29.99	6	179.94

BUDGET TOTAL 681.21

Are there any additional funds available for this grant? Campus or District Funds? PTA funds? Let us know if you have or will be seeking funds from other sources to help with this project.

Additional funds? No
 Yes

Principal Approval Required

Please provide the Name and Email of your PRINCIPAL. (Not your name)

First Name	Last Name	Email Address <small>(Completed)</small>
Melissa	Pursifull	melissa.pursifull@allenisd.org

Applicant Signature

By entering my name below I signify that I understand that if I move within the District and have written the grant myself, I may take the grant with me to my school (as long as it is appropriate for my classes). If I have written the grant as part of a team, I will leave the grant behind with the team. If I leave AISD, I will leave the grant with the school for which I wrote the grant. As a condition of this grant, I will complete an evaluation form provided by the Foundation.

Signature Cherry Ertos

Date 01/26/2019

I certify that this would be a good use of funds for our school and this grant supports the district goals and/or our campus improvement plans. **Do NOT include any identifiers, such as: campus name, your name, teachers name or mascot **

No actions possible.

Comments

I approve this would be a really good use of funds for our students at our campus and it supports district goals.

State Change History

State Change cherry.ertsos@allenisd.org
01/31/2019 19:17:44
Submitted

State Change *****
02/01/2019 10:41:46
Accepted

Grant Status

Grant Awarded Yes
 No

Award Amount 682