

Grant Number 1276

Project Title Atomic Madness!!

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 Mary Claire

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Last Name March

Phone Number 214-755-9848

Campus Ford Middle School

Main Subject Science - Secondary

Grade(s) 8

I have co-applicants.

Social Media

Please provide your work-related social media contact information.

Facebook facebook FMS Staff

Twitter @sciencediva8

Other (please specify)

Additional Grant Applicants

	First Name	Last Name	Campus	Grade
Lisa		Edge	Ford Middle School	8

Grant Number 1276

Campus/Student Information

Your campus: Ford Middle School

Will other campus' be involved/impacted by this grant?
 No
 Yes

Your grade(s): 8

Will other grades be
involved/impacted? No
 Yes

Please select all grades that will be
involved/impacted by the grant.

8

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.)

Imagine you are must visualize an atom that has a nucleus and subatomic particles, but is so very small that 1000 of these atoms could fit on the head of a pin! Then you are to visualize the 3 different subatomic particles that reside in the nucleus of the atom and outside in orbital shells! This is our most difficult concept for students to comprehend. We have 3 models for 400 students to use! We know the hands-on models seems to help our students with the atom model and they can manipulate the subatomic particles to make given atoms. We are asking for 10 more models to allow more students to experience the model.

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.)

Once the models are here, we can assign one model per teams of 4 students to use in class. The activity is building an element and teachers check to make certain the subatomic particles are in the correct location and with the correct charge. Once they receive the ok, the students build another element. After the assignment of using the model is complete, the students will then move into a drawing the Bohr Model of the same elements. This model helps with our students that need visuals and like to work with their hands.

Project Summary

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

Atomic Madness brings the atom to life! We will photograph the students using the models for the website.

Allen ISD Goals/ TEKS

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

8.5 A B

Measurement

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

We will quiz and test the students over the Atom but we do not allow them to use the models on the quizzes or tests. Practicing drawing a Bohr Model of the atom after using the models seems to enhance their understanding of the model.

Teaching Methods

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

The models are used primarily with our On Level students but have been shown to our Pre AP kids as well. The teaching method we have found to work well is a guided practice of how to correctly build an atom first demonstrated by the teacher and then allow the students to actively place the subatomic particles on the model. Teachers reinforce their thinking when viewing the finished model, and asking questions about why they choose that placement. We do correct misconceptions immediately and students correct mistakes in front of the teacher.

Timeline

What is the project timeline and the date of implementation?

This unit is currently the very first unit taught so implementation is August 2019/2020. Having the models available, we use them for remediation, tutoring etc., The models are also in use for STAAR prep later on in the Spring.

Curriculum/System Support

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

Atoms, as stated are difficult to understand due to the fact they are invisible to the naked eye. Students are able to understand that enough though we cannot see the atom, they do exist and makeup everything!

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

Budget Item	Item Type	Unit Cost	Quantity	Total Cost
Bright Atom Model	Instructional Supplies or Resources	47.55	10	475.0

BUDGET TOTAL 475

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>
Matthew	Russell	matthew.russell@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 Mary Claire March

Date 02/01/2019

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

This grant could provide a very valuable resource that will be of great benefit to all of our 8th grade science students.

State Change History

State Change mary.march@allenisd.org
02/01/2019 13:40:49
Submitted

State Change *****
02/01/2019 16:23:42
Accepted

Grant Status

Grant Awarded Yes
 No

Award Amount 475