



2012-13 Educational Grant Application
Deadline: Wednesday, March 7, 2012, by 4pm

Name of Grant: Discover the Force

Name of person(s) submitted by: Shani Suber

Campus/Department: Rountree Elementary **Grade Level(s):** 4th

Total Dollar Amount Requested: \$465.00

Number of students who would be involved/impacted by grant: 50 students

Name of principal or immediate supervisor who will approve submission: Daniel Pitcock

Project Summary/Purpose: Be specific. What is the **student need** which the project will address? The purpose should describe **what students will know and be able to do** as a result of this project. Please explain how a problem will be addressed or a situation improved because of the grant.

Hands on experience will encourage our students to understand how create, build and apply force and motion concepts in their lives. As a title one campus, many of the students' opportunities to have supplies to experiment with materials are limited. The purpose of this opportunity will give the students a learning experience outside of home and school to be design, create, gather data, and make calculations about their force and motion concepts.

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?

Students will participate at Legoland Discovery Center. Each student will have the opportunity to build a Lego race car in groups. Each group will test their ramps and slopes to see how it impacts force and motion. After calculating elapsed time and distance, they will work together to build a second race car to further deepen data to analyze. Through their experiments, the students will compare their data to understand how to force affects the car performance. Students will then develop a plan of how to enhance their future builds and projects.

Foundation For Allen Schools: 2012-13 Educational Grant Application

Which Allen ISD goals/TEKS does this project support? Limit to top two or three examples.

This is an awesome integrations of Allen ISD Math and Science TEKS.

Math

4.14 Underlying processes and mathematical tools. The student applies Grade 4 mathematics to solve problems connected to everyday experiences and activities outside of school

Science

4.6D Design an experiment to test the effect of force on an object such as a push or a pull, gravity, friction or magnetism.

4.2A Plan and implement descriptive investigations, including asking well-defined questions, making inferences and selecting/using appropriate equipment and technology to answer his/her questions.

What specific measurements will be used to evaluate the effectiveness of the project?

Students will be able to make generalizations from patterns or sets of examples and non examples in reference to changes in force and motion. Students' reasonable explanations of enhancements and changes will show their understanding of how weight and mass will change their future data and outcomes.

What teaching methods will be used to implement this project?

Teachers will pre-teach vocabulary and concepts with students prior to visit to the Discovery Center. We will help students with activity learning to encourage students to take an active role in their learning process by increasing their awareness and importance of their hypothesis, inferences and creativity.

Timeline for project (Funds will be available after September 1, 2012):

Our timeline will include teaching foundation in the Fall semester as we will learning about safety, science tools and measurement, scientific method, force and motion, mass and weigh, and tools for measurement. All these concepts and application will continue in the Spring semester.

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

I believe in Allen ISD and the mission to engage students to the highest level. Most importantly my personal favorite is the Allen ISD Strategic Plan #13 that states, "We will equip all students with tools and resources to guide their pathways and support their choices."

Include any additional comments or information (attach additional pages if necessary):

I really want to rally for our students to increase their opportunity to gain exposure and build their schema, experiences and have a greater knowledge of how to apply what they're learning in school in through real world experiences.

