A Lego a Day Keeps Life Full of Play

Collaborative Classroom Grant Application

Orchard School

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Application Form

Report Fields

Project Name*

Name of Project

A Lego a Day Keeps Life Full of Play

Amount Requested

Amount Requested \$2,475.80

Grade Level

Program Area of Request Primary (K-3)

Primary Subject Area

Please choose the primary subject area.

Science

School

Please select your school.

Boulder Elementary

Applicants*

Please list the educators collaborating on this grant.

Kerra Olson Kevin Cicero

Number of Students Served

Please enter the number of students that will be served by this grant.

60

Project Cost

What is the total cost of your project? 2475.80

Statement of Need

Please describe the need for this project. For example, how will this project impact student learning?

Our need is for Lego Education! We want to incorporate real world, relevant learning every day in first grade! Do you remember how captivating and engaging Lego's were? Have you created something amazing or seen someone else's creation and wondered how in the world did they do that? Our first graders use to see robots and think creating something like that is only for adults or people in college but now they know- it's for kids!!!

We have the most inspiring and creative group of first graders in Montana. If we were able to allow them to do science for the entire day~they would. They are so curious and want to solve the world's most interesting problems. They love complex problems but don't get the chance often enough to think outside of the box. We want to give them opportunities to create amazing things and not just write an an answer to a simple problem all the time. We want them to get a chance to use their brains in ways that they never imagined they could. We know for 6, 7, and 8 year olds it's a lot! They show us everyday how important it is to dream, wonder and experiment.

If we are able to purchase these Robotics and Story Starter Sets first graders at our school will be working with, and understanding, simple machines, gears, levers, pulleys, character, setting, conflict and resolution. They will get to work together as a team to solve problems and really THINK! We are hoping if our students love learning in first grade, and feel how good it feels to use their brains to solve a problem, they will be able to change the world! These opportunities will give first graders that "sparkle" you see when kids are thinking and learning while LOVING it! Legos will also allow them to see how real-world machines work and how important they are in everyday life.

We recently attended a conference where the speaker, a very experienced teacher, said "We have created a society of doers. They will do anything you ask. What we haven't created is thinkers. We need to teach children how to think~not just do." This thought has resonated with us. Yes, we want our students to DO great things but more importantly we want them to be able to think. To think about how to be the best person they can be and how to help the world become an even more amazing place!

Primary Goal

Please describe the primary goal of the project and how it blends with School District 2 goals and curriculum.

Our school district is currently configuring plans to integrate Project Lead The Way (PLTW). We are certain Lego Robotics and Story Starter not only fit into PLTW and current Common Core Standards, but we also see the correlation to students' real world experience in thinking. Coding, building robots, and learning to creatively problem solve are real world skills that all students need to be exposed to and feel confident doing. Our goal is to empower the students to create the change. We recently heard a Lego Robotics coach speaking about his team and it has really empowered us to go after this exciting opportunity. He said," Schools spend thousands of dollars on athletic teams each year yet maybe 1 in 100,000 of those kids will go pro or get job doing that sport. But in/on my team there will be a job for every single one of the members on my team when they leave high school!" We thought WOW! He is right.

Project Description

Briefly identify the major activities and materials involved in your project.

We would like to buy a class set of the Lego Education WeDo Construction Sets, Story Starter Core Sets, and the Resource Sets to go along with the core curriculum. In the Lego WeDo sets students work in pairs to build designs. They learn to code and build simple machines with gears, pulleys, and axels. They have to problem solve through the lesson and think "outside of the box." In the Story Starter Set students work in groups of two or three to build a story. They build a beginning, middle, and end scene. A sample scene in the Story Starter has students build their own special "Giant Fig Tree." A Town Council says slippery leaves are making a walkway risky and they are planning to cut down the tree. Protestors want the tree to be saved. It's

a landmark in the community, houses several rare birds and nests, and is a popular area for families. The students are encouraged to discuss the different issues and build a story to present various points of view.

Professional Development

If your project includes professional development how will it improve student performance?

We have not included professional development in this grant but we are hoping with the knowledge of trying this with first graders we can help other primary classrooms incorporate this amazing learning opportunity.

Project Timeline

When will you implement your project?

We plan to implement this program as soon as we get the materials!

Plan for Evaluation

How will you evaluate student outcomes for your project?

We plan to evaluate the students progress with weekly projects to monitor their growth and feelings about learning in this new and exciting way. After 2 days of learning about gears, axels, motors, pulleys, setting, plot, and character building our kids were begging for more!

Project Budget

Please explain how the funds from this grant will be spent to support your project goal. You can either type or upload a project budget to show how funds will be used. Please identify other funding sources if applicable.

We will be buying a Lego Robotics Construction set for \$1,515.95, a 6-pack Story Starter Core Set for \$677.95, a 2 pack Story Starter Core Set for \$226.95, and the Lego Education WeDo Resource Sets for \$54.95. These products total \$2,475.80. We also are planning a collaboration with Karl Schwartz and his robotics program at the Career Center. We plan to have his student come and help our students dive into final projects and then go and visit Mr. Schwartz's classroom to see the Career student's robots.

Supervisor Approval*

I have received approval from my supervisor to apply for this grant.

yes

Attachment 1

Please attach any photos, pages from catalogs, or other documents below. This is completely optional.

IMG_1458.JPG

Attachment 2

Lego You Tube Link.docx

Attachment 3

IMG_1459.JPG

File Attachment Summary

Applicant File Uploads

- IMG_1458.JPG
- Lego You Tube Link.docx
- IMG_1459.JPG

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conputer. Thay are really co
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Lego robotics

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